Information from Arctic charr fisheries in the Baffin Region, Nunavut, 1995 to 1999

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ABSTRACT

Read, C.J. 2000. Information from Fisheries for Arctic Charr, *Salvelinus alpinus*, in the Baffin Region, Nunavut, 1995 to 1999. Can. Data Rep. Fish. Aquat.. Sci. XXXX: xi + 173 p.

Arctic charr is one of the most important food resources for the people of Nunavut and, at the start of this program, formed the basis of a commercial fishery worth about $265 000 to Baffin fishers (1992/93). Hundreds of stocks are fished and prior to 1995, basic monitoring information had been collected from only a few. As a condition of the Nunavut Land Claims Agreement, the Nunavut Wildlife Board has conducted a harvest study in the new Nunavut territory. The monitoring information, in conjunction with the harvest study, provides indicators of stock health and relative abundance. This information is of value to both the Department of Fisheries and Oceans in its advisory capacity and the Nunavut Wildlife Management Board for setting total allowable harvests in Nunavut. The Department of Fisheries and Oceans designed this study as a multi-year project to gather monitoring data using the knowledge and skills of the people in the communities. The program ran from April 1995 to April 1999 with all communities on Baffin Island (except Iqaluit) as well as Igloolik, Hall Beach and Sanikiluaq participating. This report presents data on length, weight and age of Arctic charr sampled from the subsistence and commercial fisheries along with catch and effort information. The results of the local knowledge surveys conducted in the communities and the analyses of water samples collected at the fishing sites are also presented.

Key words: Arctic charr; stock assessment; population parameters; catch and effort; local knowledge.

RÉSUMÉ

Read, C.J. 2000. Information from Fisheries for Arctic Charr, *Salvelinus alpinus*, in the Baffin Region, Nunavut, 1995 to 1999. Can. Data Rep. Fish. Aquat. Sci. 1067: x + 176 p.

L'omble chevalier est l'une des plus importantes sources d'alimentation des personnes vivant au Nunavut. Au début du programme en question, la pêche commerciale dans la région reposait principalement sur ce poisson et représentait des revenus de l'ordre de 265 000 dollars pour les pêcheurs de Baffin (1992-1993). La pêche concerne des centaines de stocks et, avant 1995, seuls quelques-uns d'entre eux avaient fait l'objet d'une collecte de données à des fins de surveillance. Conformément à l'un des termes de l'Accord sur les revendications territoriales du Nunavut, le Conseil de gestion des ressources fauniques du Nunavut a effectué une étude de récolte pour le nouveau territoire du Nunavut. Les données de surveillance, associées aux données de l'étude de récolte, fournissent des indicateurs quant à la santé des stocks et à l'abondance relative. Ces renseignements sont précieux pour le ministère des Pêches et des Océans, en tant que conseiller, et ils permettent au Conseil de gestion des ressources fauniques du Nunavut de fixer les quantités totales qui peuvent être récoltées au Nunavut. Le ministère des Pêches et des Océans a conçu l'étude pour pouvoir réunir des données sur plusieurs années en se servant des connaissances et des compétences des personnes vivant dans les collectivités. Le programme s'est déroulé d'avril 1995 à avril 1999 avec la participation de toutes les collectivités de l'île Baffin (sauf Iqaluit) ainsi que celle de Igloolik, Hall Beach et Sanikiluaq. Le présent rapport contient des données sur la longueur, le poids et l'âge d'ombles chevaliers provenant de la pêche de subsistance et de la pêche commerciale ainsi que des chiffres sur les captures par unité d'effort. On y trouve aussi les résultats des sondages sur les connaissances locales des collectivités et les analyses des échantillons d'eau prélevés sur les lieux de pêche.

Mots clés : L'omble chevalier; évaluation des stocks; paramètres de la population; captures par unité d'effort; connaissances locales.

INTRODUCTION

Arctic charr, *Salvelinus alpinus* (Linnaeus),are one of the most important food resources for the people of Nunavut and form the basis of a commercial fishery, which at the start of this study, was worth about $265K to Baffin fishermen (1992/93). Fishing takes place in the summer while the fish are at sea as well as during the fall and winter while the fish are in fresh water. The number of river stocks that are fished number in the hundreds. Prior to this study basic monitoring information had been collected from only a few of these stocks. Commercial harvest levels are monitored annually, but this probably constitutes a relatively small proportion of the total harvest. Subsistence harvest is unknown in most systems.

As a condition of the Nunavut Land Claims Agreement, the Nunavut Wildlife Management Board (NWMB) was to conduct a harvest study in the new Nunavut territory. The five-year Nunavut Wildlife Harvest Study was initially proposed to start by January 1996. The harvest study presented an unparalleled opportunity to relate stock-specific monitoring information to total levels of harvest. The size and age structure, catch and effort data from the fishery and the local knowledge of fishermen provide indicators of stock health and relative abundance. If harvest levels are known these indicators can be used to determine if the harvest level is sustainable by the stock. This is a first step towards allocating total allowable harvests for charr stocks in Nunavut. Monitoring information gathered in conjunction with the harvest study would therefore be of use to both Department of Fisheries and Oceans (DFO) and the NWMB, which is responsible for setting levels of total allowable harvest in Nunavut.

DFO proposed a multi-year information collection program that would gather the required monitoring data and utilize the skills and local knowledge of the people in the communities, as well as the administrative and management support of local Hunters and Trappers Organizations (HTO). Under the Nunavut Land Claim Agreement, the HTO is the body most responsible for the day to day management of the local fisheries so it was appropriate and timely that they take on basic fishery monitoring responsibilities. Since this program was to benefit both DFO and NWMB it was presented to the NWMB for funding under the auspices of their Research Funds. The program ran from April 1, 1995 to March 31, 1999.

It was decided to include all Baffin communities including Igloolik and Hall Beach but excluding Grise Fiord and Resolute because these two communities do little fishing.

This report presents the data from the information collection program, in tabular form for use in determining total allowable harvests as well as serving as baseline data for future stock assessment studies in the area.

MATERIALS AND METHOD

In April of each year of the program DFO sent a letter to the HTO in each community explaining the program and requesting their participation. Posters explaining the program were also sent to each community each year. DFO personnel made a community tour each year to promote the program and train the persons chosen by the HTO to do the information collection. In addition to the yearly community training, a workshop was held in Pangnirtung in April 1997. Eight local fishermen were trained in all aspects of the program including hands-on sampling. Three workers from the fish plant were also trained in fish sampling with a view to future sampling of the commercial catch.

Each year of the program DFO sent a contract for services to the HTOs of all the communities. Each community contract allowed for the sampling of a minimum of two fishing sites. Additional sites were added depending on the amount of funding allocated for that year. The HTOs chose the sites to be sampled and the person to do the data collection. The first two years of the program, April 1, 1995 to March 31, 1997, included a local knowledge survey (Appendix 1) in which elder fishers of each community were questioned about local fishing. The community worker recorded the answers to a questionnaire, which included the worker's interpretation and translation as most of the fishers interviewed spoke little or no English. From each fishing site chosen by the HTO a hundred Arctic charr were to be sampled and ten catch and effort questionnaires (Appendix 2)

filled out. In addition, in the last two years of the program, April 1, 1997 to March 31, 1999, two water samples were to be collected from each site sample. All communities did not participate in all years nor was all requested information collected from all sites (Table 1).

One hundred charr from each fishing site were sampled for fork length (to the nearest mm), round weight (to the nearest 50 g), gender and sagittal otoliths were taken for age determination. In the laboratory the otoliths were ground on a fine carborundum and placed in benzyl benzoate for clearing before being read under a binocular dissecting microscope (30X). Method of ageing was according to Nordeng (1961).

Catch and effort data was to be collected from each fishing site sampled. A questionnaire (Appendix 2), bound in spiral booklets, was provided to facilitate the collection of the information necessary to make a calculation of catch and effort. The depth of the gill nets which is an important component in comparing catch and effort was not part of the questionaire. However, the nets sold in the Nunavut are of a standard depth as follows: 3.5, 4.0 and 4.5 inch meshes are 8 feet deep (30, 27 and 30 meshes respectively) while the 5.0 and 5.5 inch meshes are both 9 feet deep (24 meshes). (Lakefish Net and Twine Ltd., pers. comm.)

Water samples were collected from lakes (and rivers) where Arctic charr over-winter and presumably spawn and were spawned. The samples were analyzed particularly for the trace element strontium. There is a good correlation between otolith strontium and water strontium (Babaluk, pers.comm.) (Babaluk et al, 1997). Since there are differences in strontium content in various lakes and rivers the difference will show up in the otloiths and it may be possible to differentiate between charr stocks. The other trace elements (barium, copper, iron, maganese, nickel and zinc) are similar to calcium in their structure and if they are present in the water in sufficient quantities, they may show up in the otoliths which are calcified structures. The more trace elements in the otoliths the better the possibility for stock discrimination.

DATA ANALYSIS

The Statistical Analysis System for Windows (1989 - 1996) was used to generate length, weight, age, gender and stage of maturity summaries and to perform basic calculation and statistical analysis. Relative condition factor (K) was calculated using the formula:

$$K = \frac{W \times 10^5}{L^3}$$

where W= round weight in grams
L = fork length in centimetres

Water samples were analyzed by DFO, Winnipeg.

RESULTS

The results are presented by community by fishing site. The map for each community shows the fishing sites that were sampled for the program as well as the fishing sites mentioned in the local knowledge survey. In some cases the author was unable to pinpoint the exact location of the site mentioned so an approximate location was marked with an X.

The biological data collected from each site are presented as appendices in length and age frequency tables. The "combined" section of these tables include male, female and unknown. From some sites there were no otoliths collected so there is no age frequency table for that site. There are also samples for which the weight data were unreliable so these were not used.

The catch and effort data is presented as reported in the questionnaires used and summarized by mesh size as the number of fish caught per 24 hours per 100 yards of gill net.

The local knowledge survey results are presented by community by year in table form. A list of the reasons given for changes in the fisheries is presented as reported in the questionnaires. The number for each fisher in the table corresponds to the same fisher in the list of reasons.

The water analyses for all community fishing sites is presented in Table 2.

ARCTIC BAY

Fishing data collected from community fishing sites near Arctic Bay (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples and local knowledge. The local knowledge survey was done for the 1995/96 program. Ikpikittuarjuk, Magda, Ikalulik and Qakkiaq were the lakes mentioned most often in the survey with fifteen fishers mentioning Ikpikittuarjuk Lake. The results are listed in Table 3 and the reasons given for the changes in the fisheries are presented in Table 4. Biological samples were collected from Ikipikittuarjuk and Qakkiaq Lakes in 1998. Catch and effort data and water samples were also collected from Ikpikittuarjuk Lake.

Ikipikittuarjuk Lake

Ikpikittuarjuk Lake is east of Moffet Inlet approximately 100km southeast of the community of Arctic Bay (Figure 2).

One hundred Arctic charr gillnetted from Ikpitikpiajuk Lake in September 1998 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of these fish was 529 mm and the mean age was 10.3 years (Figure 3). More detailed information is presented in Appendices 3 and 4.

Catch and effort data collected from Ikpikittuarjuk Lake indicated that for every 100 yards of gillnet set for 24 hours nine fish were caught in the 3.0 inch mesh size, 44 fish in the 3.5 inch mesh size and nine fish in the 4.5 inch mesh size (Table 5).

Two water samples were also collected and the data are presented in Table 2.

Qakkiaq Lake

Qakkiaq Lake is north of Kakiak Point approximately 65km southwest of the community of Arctic Bay (Figure 2).

Ninety Arctic charr gillnetted from Qakkiaq Lake in December 1998 were sampled for length, weight and gender, with an otolith extracted for ageing purposes. The weights taken were not used because they were unreliable. The mean length of these fish was 489 mm and the mean age was 9.3 years (Figure 4). More detailed information is presented in Appendices 5 and 6).

POND INLET

Fishing data collected from community fishing sites near Pond Inlet (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples and local knowledge. The local knowledge survey was done twice, once for the 1995/96 program and once for the 1997/98 program. Ikaluit Lake was mentioned most often in both surveys. The results are listed in Table 6 and the reasons given for changes in the fisheries are presented in Table 7. Biological samples and catch and effort data were collected from Ikaluit Lake in the three program years from 1995/96 to 1998/99; from Tuniit Lake for 1997/98 and 1998/99; from Coutt's Inlet Lake for 1997/98 and 1998/99; and from Tugaat for 1995/96. Water samples were collected from Ikaluit Lake and Tuniit Lake for 1998/99.

Ikaluit Lake

Ikaluit Lake is west off the 'heel' of Tay Sound approximately 100km southwest of the community of Pond Inlet (Figure 5).

In each of February 1996, November 1996 and November 1997 approximately one hundred Arctic charr from Ikaluit Lake were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 654, 645 and 649 mm in February 1996, November 1996 and in November 1997 respectively (Figure 6). The mean age was 14.0, 14.2 and 14.5 years in February 1996, November 1996 and November 1997 respectively (Figure 7). More detailed information is presented in Appendices 7 to 12.

Catch and effort data collected from Ikaluit Lake in February 1996 indicated that for every 100 yards of gill net set for 24 hours, 162 fish were caught in the 4.0 inch mesh and 72 fish were caught in the 5.0 inch mesh (Table 8). In November 1997, for every 100 yards of gill net set for 24 hours, two hundred and twenty-one fish were caught in the 5.5 inch mesh (Table 9).

One water sample was collected and the data are presented in Table 2.

Tugeat Lake

Tugaat Lake is east off Milne Inlet approximately 110km southwest of the community of Pond Inlet (Figure 5.)

One hundred Arctic charr gillnetted from Tugaat Lake in February 1996 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 626 mm and the mean age was 11.4 years (Figure 8). More detailed information is presented in Appendices 13 and 14.

Catch and effort data collected from Tugaat Lake indicated that for every 100 yards of gill net set for 24 hours, 96 fish were caught in the 4.5 inch mesh and 53 fish in the 5.5 inch mesh (Table 10).

Coutts Inlet Lake

Coutts Inlet Lake is at the end of Coutt's Inlet approximately 125km southeast of the community of Pond Inlet (Figure 5.)

Ninety-eight Arctic charr gillnetted from Coutts Inlet Lake in February 1997 and 50 in March 1998 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 637 mm in February 1997 and 648 mm in March 1998 (Figure 9). The mean age was 15.2 and 15.6 years respectively (Figure 10). More detailed information is presented in Appendices 15 to 18.

Catch and effort data collected from Coutts Inlet Lake in February 1997 indicated 31 fish caught per 100 yards of 5.5 inch mesh gill net set for 24 hours (Table 11).

Tuniit Lake

Tuniit Lake is located off the end of the east arm of Pacquet Bay approximately 20km south of the community of Pond Inlet (Figure 5).

In each of January 1997 and February 1998 approximately 100 Arctic charr from Tuniit Lake were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled in January 1997 was 604 mm and 614 mm in February 1998 (Figure 11). The mean age was 13.7 and 14.1 years respectively (Figure 12). More detailed information is presented in Appendices 19 to 22.

Catch and effort data collected from Tuniit Lake indicated that for every 100 yards of 5.5 inch mesh gill net set for 24 hours, 69 fish were caught in November 1997 and 89 fish in February 1998 (Tables 12 and 13).

Two water samples were collected and the data are presented in Table 2.

CLYDE RIVER

Fishing data collected from community fishing sites near Clyde River (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples and local knowledge. The local knowledge survey was done twice, once for the 1995/96 program and once for the 1996/97 program. Clyde River and Sam Ford Fiord were mentioned most often in the 1995/96 survey. Sam Ford Fiord and Naqsaarluk River were mentioned most often in the 1996/97 survey. The results are listed in Table 14 and the reasons given for changes in the fisheries are presented in Table 15. Biological samples were collected from Kuuktannaq River in 1995, Kogalu River in 1996, Naqsaarluk Lake in 1997, Sam Ford Fiord in 1998 and Killautarialik Lake in 1999. Catch and effort data was collected from Kuuktannuq River, Kogula River, Naqsaarluk Lake and Sam Ford Fiord. Water samples were collected from Killautarialik Lake.

Kuuktannaq River (Kuptana/Spud River)

Kuuktannaq River is approximately 80km southeast of the community of Clyde River (Figure 13).

One hundred Arctic charr gillnetted, angled and trap netted from Kuuktannaq River in August 1995 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 441 mm for the gill net samples, 447 for the angled samples and 381 mm for the trap net samples (Appendices 23, 24 and 25). The mean age of the same samples was 10.4, 11.4 and 9.7 years respectively (Appendices 26, 27 and 28). The mean length and age of the samples from

all gears together was 431 mm and 10.5 years (Figure 14).

Catch and effort data collected from Kuuktannaq River in August 1995 indicated that 24 fish were caught in 100 yards of 5.5 inch mesh gill net set for 24 hours (Table 16).

Kogalu River

Kogalu River is approximately 30km northwest of the community of Clyde River (Figure 13)

One hundred and one Arctic charr gillnetted from Kogalu River in August 1996 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 519 mm and the mean age was 13.1 years (Figure 15). More detailed information is presented in Appendices 29 and 30.

Catch and effort data collected from Kogalu River in August 1996 indicated that 469 fish were caught in 100 yards of 5.5 inch mesh gill net set for 24 hours (Table 17).

Naqsaarluk Lake

Naqsaarluk Lake is east of Dexterity Fiord approximately 175km northwest of the community of Clyde River (Figure 13).

Forty-six Arctic charr angled in June 1996 and 100 gillnetted in May 1997 from Naqsaarluk Lake were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled in June 1996 was 624 mm (Figure 16). The mean length of the fish sampled in March 1997 was 651 mm and the mean age was 14.0 years (Figure 17). More detailed information is presented in Appendices 31, 32 and 33).

Catch and effort data collected from Naqsaarluk Lake in May 1997 indicated that for every 100 yards of gillnet net set for 24 hours 34 fish were caught in the 4.5 inch mesh and 37 fish in the 5.5 inch mesh (Table 18).

Sam Ford Fiord

Sam Ford Fiord is approximately 75km northwest of the community of Clyde River (Figure 13).

One hundred and one Arctic charr gillnetted from Sam Ford Fiord in March 1998 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 625 mm and the mean age was 14.8 years (Figure 18). More detailed information is presented in Appendices 34 and 35.

Catch and effort data collected from Sam Ford Fiord indicated 158 fish were caught per 100 yards of 5.5 inch mesh gillnet net set for 24 hours (Table 19).

Killautarialik Lake

Killautarialik Lake is just northeast of Naqsaarluk Lake, approximately 175km northwest of the community of Clyde River (Figure 13).

One hundred Arctic charr gillnetted from Killautarialik Lake in March 1999 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 621 mm and the mean age was 13.7 years (Figure 19). More detailed information is presented in Appendices 36 and 37.

QIKIQTAAKJUAQ

Fishing data collected from community fishing sites near Qikiqtaakjuaq (formerly Broughton Island) (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples, and local knowledge. The local knowledge survey was done twice, once for the 1995/96 program and once for the 1996/97 program. Padle Fiord, Natluksiak Lake and Nudluit Lake were mentioned most often. The results are listed in Table 20 and the reasons given for changes in the fisheries are presented in Table 21. Biological samples were collected from Natluksiak Lake 1995 and 1999, from Nudluit Lake in 1996, and from Avaliqqut Lake, Kagnillarjuit Lake, and Tunusuk Lake in 1999. Catch and effort data were collected from

Natluksiak Lake and Nudluit Lake. Water samples were collected from Natluksiak Lake.

Natluksiak Lake

Natluksiak Lake is approximately 130km northeast of the community of Qikiqtaakjuaq (Figure 20.)

One hundred Arctic charr gillnetted from Natluksiak Lake in each of October 1995 and January 1999 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 559 mm in 1995 and 621 mm in 1999 (Figure 21). The mean age was 11.7 years in 1995 and 13.7 years in 1999 (Figure 22). More detailed information is presented in Appendices 38 to 41.

Catch and effort data collected from Natluksiak Lake in October 1995 indicated a that 1004 fish were caught per 100 yards of 5.0 inch mesh gill net set for 24 hours. Catch and effort data collected in January 1999 indicated that for every 100 yards of gill net set for 24 hours, 648 fish were caught in the 5.25 inch mesh and 274 fish were caught in the 5.5 inch mesh (Table 22).

The results of the water analysis are presented in Table 2.

Nudluit Lake

Nudluit Lake is approximately 180km northwest of the community of Qikiqtaakjuaq (Figure 20).

One hundred and one Arctic charr gillnetted from Nudluit Lake in January 1996 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 501 mm and the mean age was 10.9 years (Figure 23). More detailed information is presented in Appendices 42 and 43.

Catch and effort data collected from Nudluit Lake indicated that for 134 fish were caught per 100 yards of 5.5 inch mesh gillnet net set for 24 hours (Table 23).

Tunusuk Lake

Tunusuk Lake is approximately 75km southeast of the community of Qikiqtaakjuaq (Figure 20).

One hundred Arctic charr gillnetted from Tunusuk Lake in March 1997 were sampled for length, weight and gender (no otolith was extracted). The mean length of the fish sampled was 652 mm (Figure 24). More detailed information is presented in Appendices 44.

Avaliqqut Lake

Avaliqqut Lake is approximately 75km southeast of the community of Qikiqtaakjuaq (Figure 20).

One hundred Arctic charr gillnetted from Avaliqqut Lake in March 1997 were sampled for length, weight and gender (no otolith was extracted). The mean length of the fish sampled was 603 mm (Figure 24). More detailed information is presented in Appendix 45.

Kagnilliarjuit Lake

Kagnilliarjuit Lake is approximately 75km southeast of the community of Qikiqtaakjuaq (Figure 20).

One hundred Arctic charr gillnetted from Kagnilliarjuit Lake in March 1997 were sampled for length, weight and gender (no otolith was extracted). The mean length of the fish sampled was 613 mm (Figure 23). More detailed information is presented in Appendix 46.

PANGNIRTUNG

Fishing data collected from community fishing sites near Pangnirtung (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples, and local knowledge. The local knowledge survey was done for the 1995/96 program. Iqalukjuaat and Kingnait Fiord were mentioned most often. The results are listed in Table 24 and the reasons given for changes in the fisheries are presented in Table 25. Biological samples were collected from Kingnait Fiord in 1997, from Avataktuuk Lake, Iqalujjuaq Fiord and Iqalukjuaat and Kipisa River in 1997. Catch and effort data was collected

from Iqalukjuaat and Kipisa River. A water sample was collected from Avataktuuk Lake.

Kingnait Fiord

Kingnait Fiord is approximately 25km southeast of the community of Pangnirtung (Figure 25).

One hundred Arctic charr gillnetted from Kingnait Fiord in March 1997 were sampled for length and weight with an otolith extracted for ageing purposes. The mean length of the fish sampled was 593 mm and the mean age was 13.0 years (Figure 26). More detailed data are presented in appendices 47 and 48. Gender of the fish sampled was not noted.

Avataktuuk Lake

Avataktuuk Lake is approximately 25km northwest of the community of Pangnirtung (Figure 25).

One hundred Arctic charr gillnetted from Avataktuuk Lake in May 1997 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The weights given were not used as they were unreliable. The mean length of the fish sampled was 447 mm and the mean age was 10.9 years (Figure 27). More detailed data are presented in Appendices 49 and 50.

One water sample was collected and the data are presented in Table 2.

Iqalujjuaq Fiord

Iqalujjuaq Fiord is approximately 60km southeast of the community of Pangnirtung (Figure 25).

One hundred Arctic charr gillnetted from Iqalujjuaq Fiord in August 1997 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 559 mm and the mean age was 11.3 years (Figure 28). More detailed data are presented in appendices 51 and 52.

Iqalukjuatt

Iqalukjuatt is approximately 50km northwest of the community of Pangnirtung (Figure 25).

One hundred Arctic charr gillnetted from Iqalukjuatt in August 1997 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 502 mm and the mean age was 9.3 years (Figure 29). More detailed data are presented in appendices 53 and 54.

Catch and effort data collected from Iqalukjuatt indicated that for every 100 yards of gill net set for 24 hours, 561 fish were caught in the 5.0 inch mesh and 544 fish were caught in the 5.5 inch mesh (Table 26).

Kipisa River

Kipisa River is approximately 120km northwest of the community of Pangnirtung (Figure 24).

One hundred Arctic charr gillnetted from Kipisa River in August 1997 were sampled for length, weight and gender with an otolith extracted for ageing purposes. The mean length of the fish sampled was 572 mm and the mean age was 10.6 years (Figure 29). More detailed data are presented in Appendices 55 and 56.

Catch and effort data collected from Kipisa River indicated that for every 100 yards of gill net set for 24 hours, 1728 fish were caught in the 5.0 inch mesh and 2752 fish were caught in the 5.5 inch mesh (Table 27).

KIMMIRUT

Fishing data collected from fishing sites near Kimmirut (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples and local knowledge. The local knowledge survey was done once for the 1995/96 program. Tasiuja and Iqlauit were the fishing sites mentioned most often. The results are listed in Table 28 and the reasons given for changes in the fisheries are presented in Table 29. Biological samples were collected from Katoga River, Iqaluit River, and Natsiaqtuuq River for the 1996/97 program, from Quaralik River and Qivignaniq River for the 1997/98 program and from Qavarusiktuk Lake for the

1998/99 program. Catch and effort data was collected from Katoga, Natsiaqtuuq, Quaralik, Qivignaniq and Qavarusiktuk Rivers. One water sample was collected from Qivignaniq River and one from Quaralik River.

Katoga River

Katoga River is approximately 140km southeast of the community of Kimmirut (Figure 31).

One hundred Arctic charr gillnetted from Katoga River in July 1996 were sampled for length, weight and gender (no otoliths were extracted). The mean length of the fish sampled was 528 mm from the 4.0 inch mesh and 501 millemetres from the 4.5 inch mesh (Figure 32). More detailed information is presented in appendices 57 and 58.

Catch and effort data collected from Katoga River in July 1996 indicated that for every 100 yards of gill net set for 24 hours, 879 fish were caught in the 4.0 inch mesh and 280 fish were caught in the 4.5 inch mesh (Table 30).

Iqaluit River

Iqaluit River is approximately 45km southeast of the community of Kimmirut (Figure 31).

One hundred Arctic charr gillnetted from Iqaluit Lake in August 1996 were sampled for length and weight with an otolith extracted for aging purposes. The mean length of the fish sampled was 417 mm and the mean age was 7.6 years (Figure 33). More detailed information is presented in appendices 59 and 60.

Natsiaqtuuq River

Natsiaqtuuq River is approximately 140km southeast of the community of Kimmirut (Figure 31).

One hundred Arctic charr gillnetted from Natsiaqtuuq River in August 1997 were sampled for length, weight and gender (no otoliths were extracted). The mean length of the fish sampled was 597 mm from the 4.0 inch mesh and 648 mm from the 4.5 inch mesh (Figure 34). More detailed information is presented in appendices 61 and 62.

Catch and effort data collected from Natsiaqtuuq River in August 1997 indicated that for every 100 yards of gill net set for 24 hours, 576 fish were caught in the 4.0 inch mesh and 3430 fish were caught in the 4.5 inch mesh (Table 31).

Quaralik River

Quaralik River is approximately 160km northwest of the community of Kimmirut (Figure 31).

One hundred and four Arctic charr gillnetted from Quaralik River in August 1997 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 558 mm and the mean age was 10.9 years (Figure 35). More detailed information is presented in appendices 63 and 64.

Catch and effort information indicated that 558 fish were caught in 100 yards of 4.0 inch mesh gill net set for 24 hours (Table 32).

One water sample was collected and the data is presented in Table 2.

Qiviaganiq River

Qiviaganiq River is approximately 150km northwest of the community of Kimmirut (Figure 25).

One hundred Arctic charr gillnetted from Qiviaganiq River in August 1997 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 553 mm and the mean age was 10.9 years (Figure 36). More detailed information is presented in appendices 65 and 66.

Catch and effort information indicated that 720 fish were caught in 100 yards of 4.0 inch mesh gillnet set for 24 hours (Table 33).

One water sample was collected and the data are presented in Table 2.

Qavarusiktuk Lake

Qavarusiktuk Lake is approximately 75km southeast of the community of Kimmirut (Figure 31).

One hundred Arctic charr gillnetted from Qavarusiktuk Lake in March 1999 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 513 mm and the mean age was 9.7 years (Figure 37). More detailed information is presented in appendices 67 and 68.

Catch and effort information indicated that 1039 fish were caught in 100 yards of 4.5 inch mesh gillnet set for 24 hours (Table 34).

CAPE DORSET

Fishing data collected from fishing sites near Cape Dorset (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples and local knowledge. The local knowledge survey was done for the 1995/96 program and for the 1996/97 program. Iqalugajuiit, Taguagajuq and Sapujuat were the fishing sites mentioned most often. The results are listed in Table 35 and the reasons given for changes in the fisheries are presented in Table 36. Biological samples were collected from Iqalugajuit River and Tagiugajuk River for the 1995/96 program, from Sapugajuiit, Oviluqtuuq River, Sapujuat River and Tasiujaqjuaq Lake for the 1997/98 program and Tasiujakalak, Kangisurtuq River and Kangisuajuk River for the 1998/99 program. Catch and effort data and water samples were collected from Sapugajuiit, Oviluqtuuq River and Sapujuat River.

Iqalugajuiit River

Iqalugajuiit River is approximately 65km northeast of the community of Cape Dorset (Figure 38).

One hundred Arctic charr gillnetted from Iqalugajuiit River n July 1996 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 510 mm and the mean age was 12.7 years (Figure 39). More detailed information is presented in Appendices 69 and 70.

Tagiugajuk River

Tagiugajuk River is approximately 40km northeast of the community of Cape Dorset (Figure 38).

One hundred Arctic charr gillnetted from Tagiugajuk River in August 1996 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 482 mm and the mean age was 11.7 years (Figure 40). More detailed information is presented in Appendices 71 and 72.

Sapugajuiit

Sapugajuiit is approximately 45km northeast of the community of Cape Dorset (Figure 38).

Ninety-five Arctic charr caught in 4.0 gillnetted from Sapugajuiit in August 1997 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 514 mm and the mean age was 11.2 years (Figure 41). More detailed information is presented in Appendices 73 and 74.

Catch and effort data collected from Sapugajuiit indicated 49 fish were caught per 100 yards of 4.0 inch mesh gillnet size net set for 24 hours (Table 37).

One water sample was collected and the data are presented in Table 2.

Oviluqtuuq River

The author was unable to establish the location of Qviluqtuuq River.

Ninety-eight Arctic charr gillnetted from Oviluqtuuq River in August 1997 were sampled for length and weight with an otolith extracted for aging purposes. The mean length of the fish sampled was 528 mm and the mean age was 11.9 years (Figure 42). More detailed information is presented in Appendices 75 and 76.

Catch and effort data collected from Oviluqtuuq River indicated that for every 100 yards of gill net set for 24 hours, 6336 fish were caught in the 4.0 inch mesh and 4128 fish in the 4.5 inch mesh (Table 38).

One water sample was collected and the data are presented in Table 2.

Sapujuat River

Sapujuat River is approximately 50km northeast of the community of Cape Dorset (Figure 38).

One hundred Arctic charr gillnetted from Sapujuat River in September 1997 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 486 mm and the mean age was 9.1 years (Figure 43). More detailed information is presented in Appendices 77 and 78.

Catch and effort data collected from Sapujuat River indicated that 45 fish were caught per 100 yards of 4.0 inch mesh gillnet net set for 24 hours. No fish were caught in either 250 feet of 4.5 inch mesh gillnet set for 7.5 hours or 120 feet of 5.0 inch mesh gillnet set for 9.5 hours (Table 39).

One water sample was collected and the data are presented in Table 2.

Tasiujaqjuaq Lake

Tasiujaqjuaq Lake is approximately 10km northwest of the community of Cape Dorset (Figure 38).

Ninety-six Arctic charr gillnetted from Tasiujaqjuaq Lake in October 1997 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 439 mm and the mean age was 10.1 years (Figure 44). More detailed information is presented in Appendices 79 and 80.

Tasiujakalak

Tasiujakalak is approximately 100km west of the community of Cape Dorset (Figure 38).

Ninety-eight Arctic charr gillnetted from Tasiujakalak in July 1998 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 430 mm and the mean age was 9.3 years (Figure 45). More detailed information is presented in Appendices 81 and 82.

Kangisurituq River

Kangisuajuaq River is approximately 60km northeast of the community of Cape Dorset (Figure 38).

One hundred and ten Arctic charr gillnetted from Kangisuajuaq River in July 1998 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 519 mm and the mean age was 9.8 years (Figure 46). More detailed information is presented in Appendices 83 and 84.

Kangisuajuk River

Kangisuajuk River is approximately 175km northwest of the community of Cape Dorset (Figure 38).

One hundred Arctic charr gillnetted from Kangisuajuk River in September 1998 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 519 mm and the mean age was 9.8 years (Figure 47). More detailed information is presented in Appendices 85 and 86.

IGLOOLIK

Fishing data collected from fishing sites near Igloolik (Figure 1) included biological samples from Arctic charr, catch and effort data, water samples, and local knowledge. The local knowledge survey was done for each of three years of the program, 1995/96, 1996/97 and 1997/98. Gifford River, Asta Lake, Kukaluk River and Lailor Lakes were the fishing sites mentioned most often. The results are listed in Table 40 and the reasons given for changes in the fisheries are presented in Table 41.

Biological samples were collected from Kukaluk Lake for the 1995/96 program and from Asta Lake for the 1996/97 program. No catch and effort data or water samples were collected.

Kukaluk Lake

Kukaluk Lake is approximately 100km north of the community of Igloolik (Figure 48).

Ninety-nine Arctic charr caught in 5.5 inch gill nets from Kukaluk Lake in March 1996 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 670 mm and the mean age was 15.4 years (Figure 49). More detailed information is presented in Appendices 87 and 88.

Asta Lake

Asta Lake is approximately 125km northwest of the community of Igloolik (Figure 48).

One hundred Arctic charr gillnetted from Asta Lake in March 1997 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 683 mm and the mean age was 16.3 years (Figure 50). More detailed information is presented in Appendices 89 and 90.

HALL BEACH

Fishing data collected from fishing sites near Hall Beach (Figure 1) included biological samples from Arctic charr, water samples, and local knowledge. The local knowledge survey was done for the 1995/96 program and again for the 1998/99 program. Hall Lake (known locally as Tasiujak Lake) was the fishing site mentioned the most often. The results are listed in Table 42 and the reasons given for changes in the fisheries are presented in Table 43. Biological samples were collected from Tikiraq River for the 1997/98 program and Naulingiavik River for the 1998/99 program. No catch and effort data was collected from either site. One water sample was collected from Tikiraq River.

Tikiraq River

Tikiraq River is approximately 90km southwest of the community of Hall Beach (Figure 51).

Ninety-nine Arctic charr gillnetted from Tikiraq River in August 1997 were sampled for length and weight with an otolith extracted for aging purposes. The mean length of the fish sampled was 668 mm and the mean age was 13.5 years (Figure 52). More detailed information is presented in appendices 91 and 92.

One water sample was collected and the data are presented in Table 2.

Naulingiavik River

Naulingiavik River is approximately 115km southeast of the community of Hall Beach (Figure 51).

Ninety-eight Arctic charr caught gillnetted from Naulingiavik River in August 1998 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 716 mm and the mean age was 15.5 years (Figure 52). More detailed information is presented in appendices 93 and 94.

SANIKILUAQ

Fishing data collected from fishing sites near Sankiluaq (Figure 1) consisted of biological samples from Arctic charr and catch and effort data that were used because they were incomplete. No local knowledge survey was done and no water sample was collected. Biological samples were collected from Kasegalik Lake (West Arm) for the 1996/97 program and from Kasegalik Lake (West Arm and East Arm) for the 1997/98 program.

Kasegalik Lake (West Arm)

Kasegalik Lake (West Arm) is approximately 40km south of the community of Sanikiluaq (Figure 54).

Ninety-seven Arctic charr in June 1997 and one hundred in June 1998 gillnetted from Kasegalik Lake (West Arm) were sampled for length,

weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 504 mm in 1997 and 481 mm in 1998. The mean age was 10.2 years in 1997 and 10.9 years in 1998 (Figures 55 and 56). More detailed information is presented in appendices 95 to 98 inclusive.

Kasegalik Lake (East Arm)

Kasegalik Lake (East Arm) is approximately 15km south of the community of Sanikiluaq (Figure 53).

Ninety-nine Arctic charr gillnetted from Kasegalik Lake (East Arm) in June 1998 were sampled for length, weight and gender with an otolith extracted for aging purposes. The mean length of the fish sampled was 499 mm and the mean age was 10.6 years (Figure 57). More detailed information is presented in appendices 99 and 100.

ACKNOWLEDGEMENTS

Special thanks go to the secretary/managers of all the Baffin communities who participated in this data collection program. The secretary/managers were the contact people in each community and provided invaluable assistance. The community workers collected the data and are to be commended for a job well done. Thanks are also extended to the Northwest Territorial and Nunavut Government Wildlife Officers for their assistance and advice.

Fish ages were determined from otoliths by Gary Carder, Salmon Arm, B.C. Dr. S. Cosens and Dr. R. Tallman undertook reviews of the manuscript at various stages and thanks go to them. Thanks to Peter Warkentin for doing a final proofing.

REFERENCES

BABALUK, J. A., HALDEN, N.M., REIST, J.D., KRISTOFFERSON, A.H., CAMPBELL, J.L., and TEESDALE, W.J. 1997. Evidence for non-anadromous behaviour of Arctic charr *Salvelinus alpinus* from Lake Hazen, Ellesmere Isalnd, Northwest Territories, Canada, based on scanning proton microprobe analysis of otolith strontium distribution. Arctic. Vol.50 (3): 224-233.

NORDENG, H. 1961. On the biology of char *Salmo alpinus* L. in Salagen, North Norway. 1. Age and spawning frequency determined from scales and otoliths. Nytt. Mag. Zool. 10:67-123.

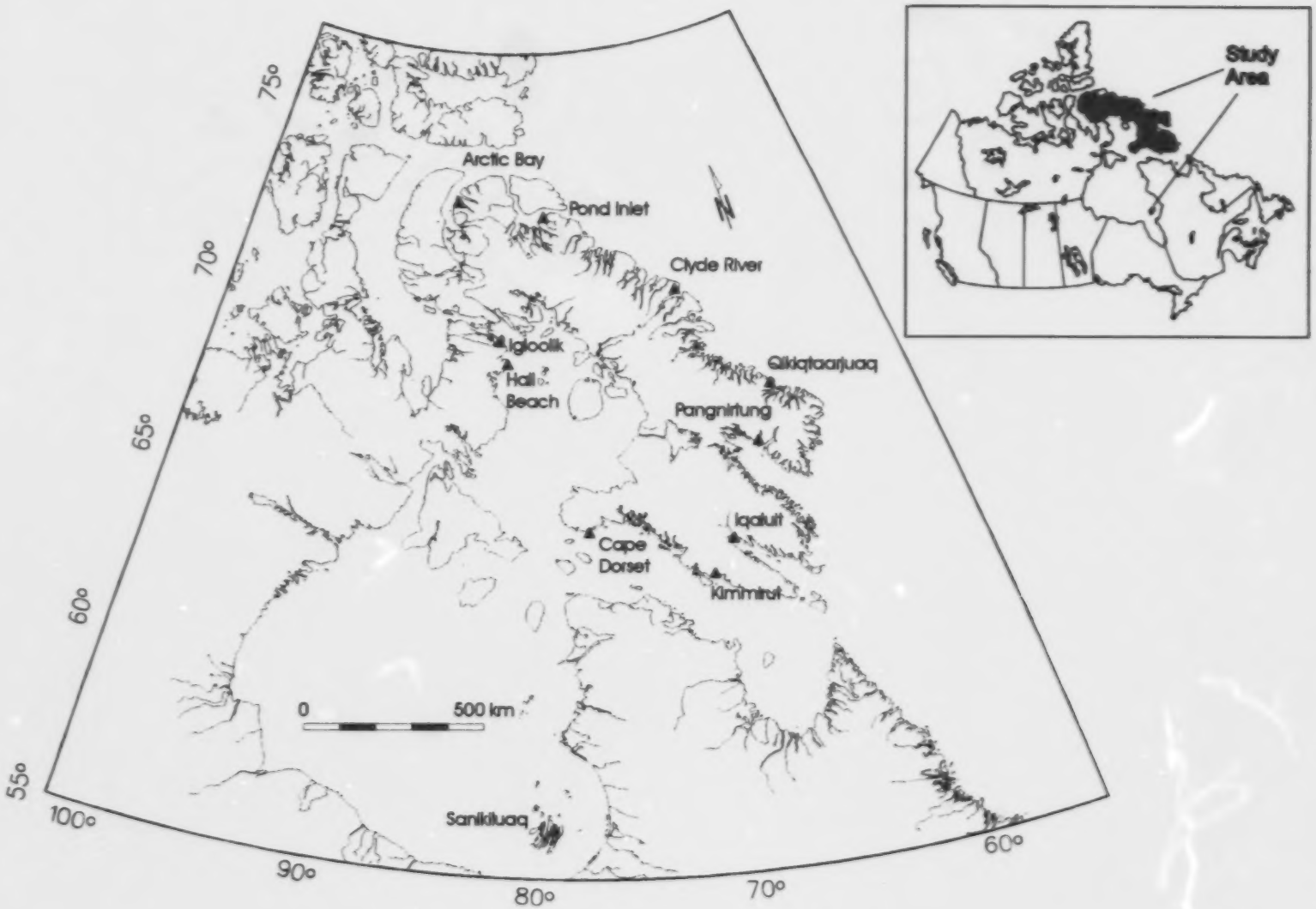


Figure 1. Map showing the communities included in the Baffin Arctic charr information collection program.

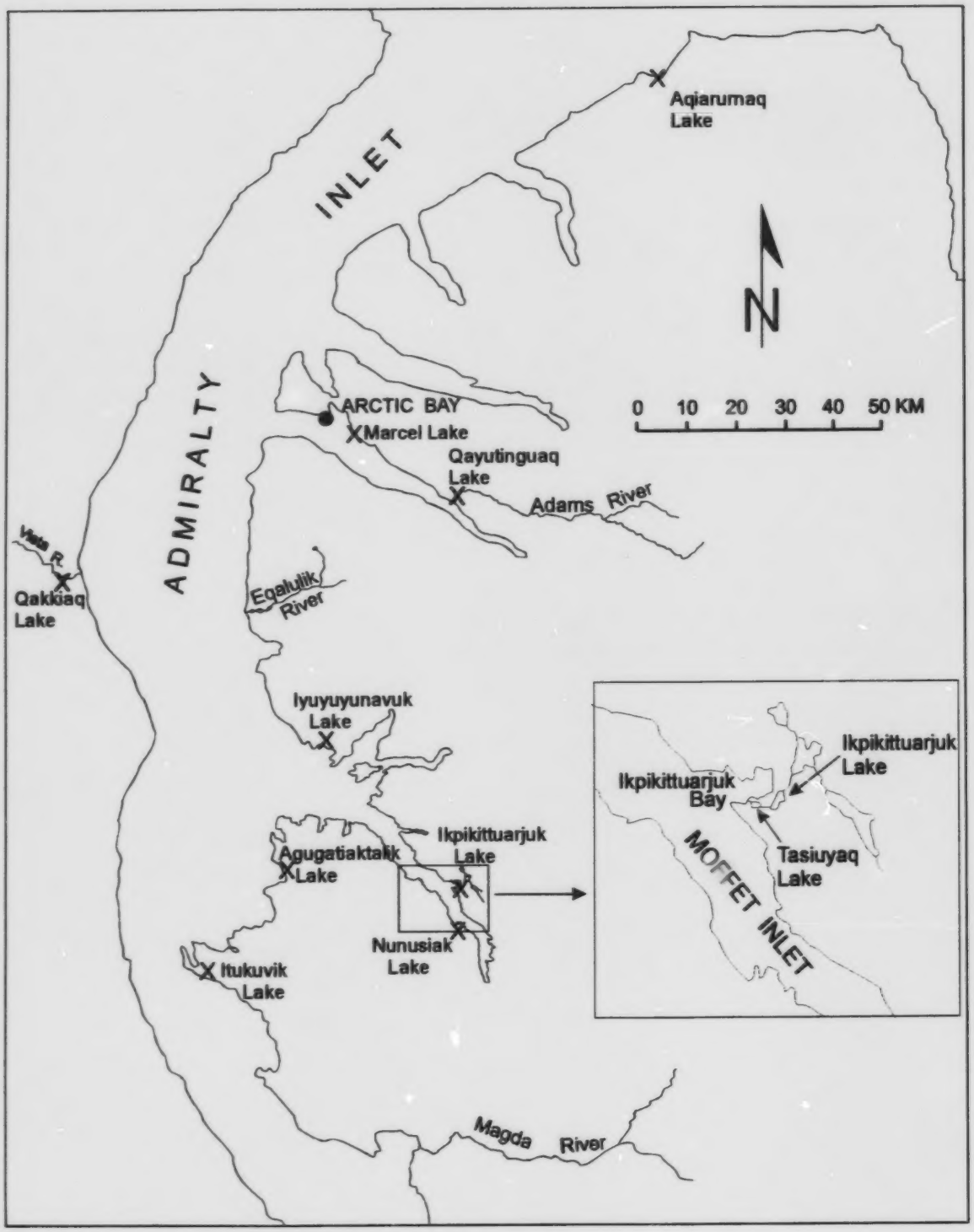
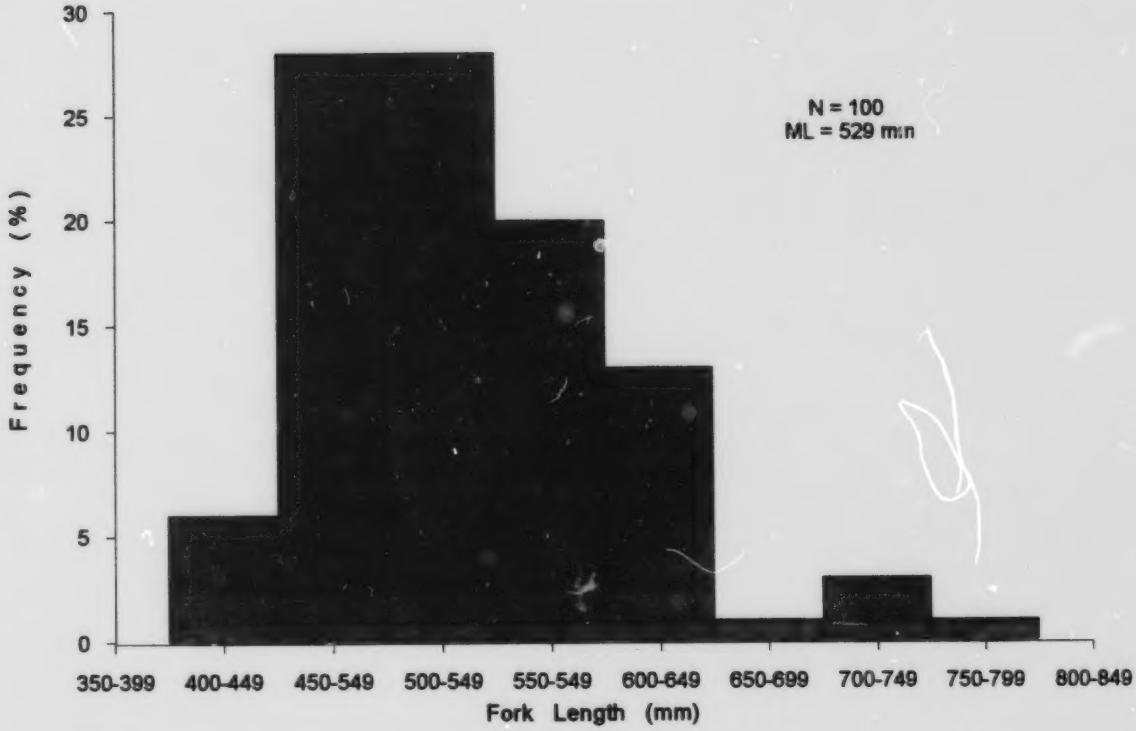


Figure 2. Map of Arctic Bay area showing local fishing sites.



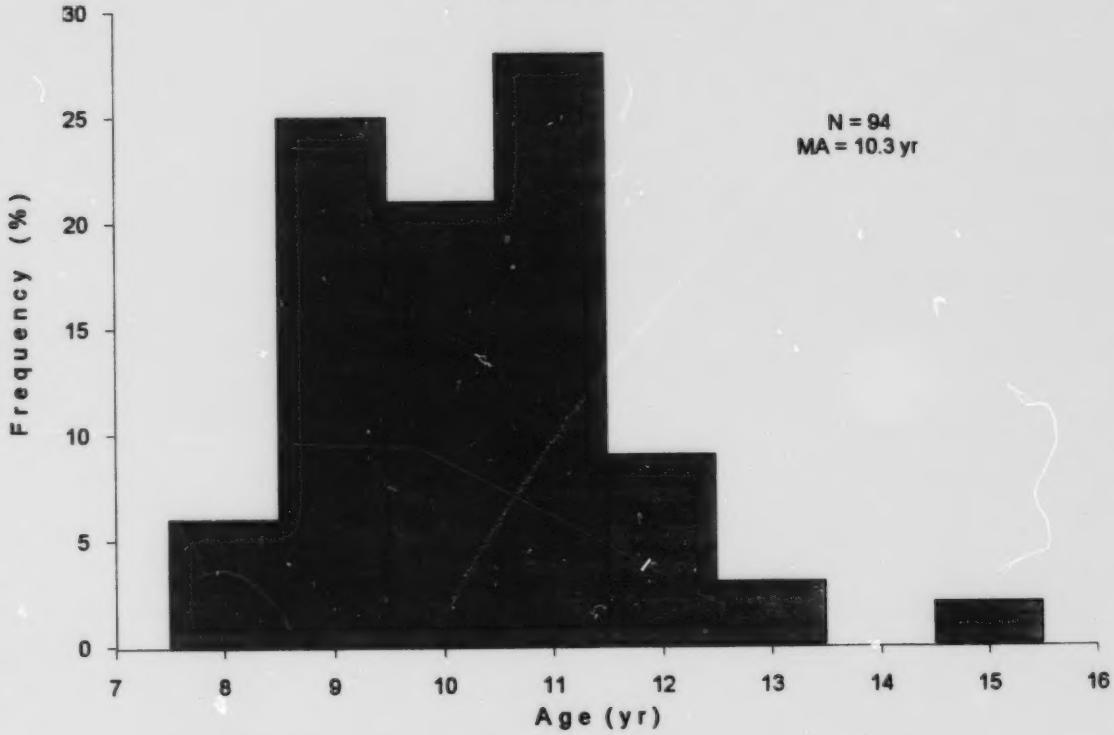


Figure 3. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Ikpikittuarjuk Lake (Arctic Bay), September 1998.

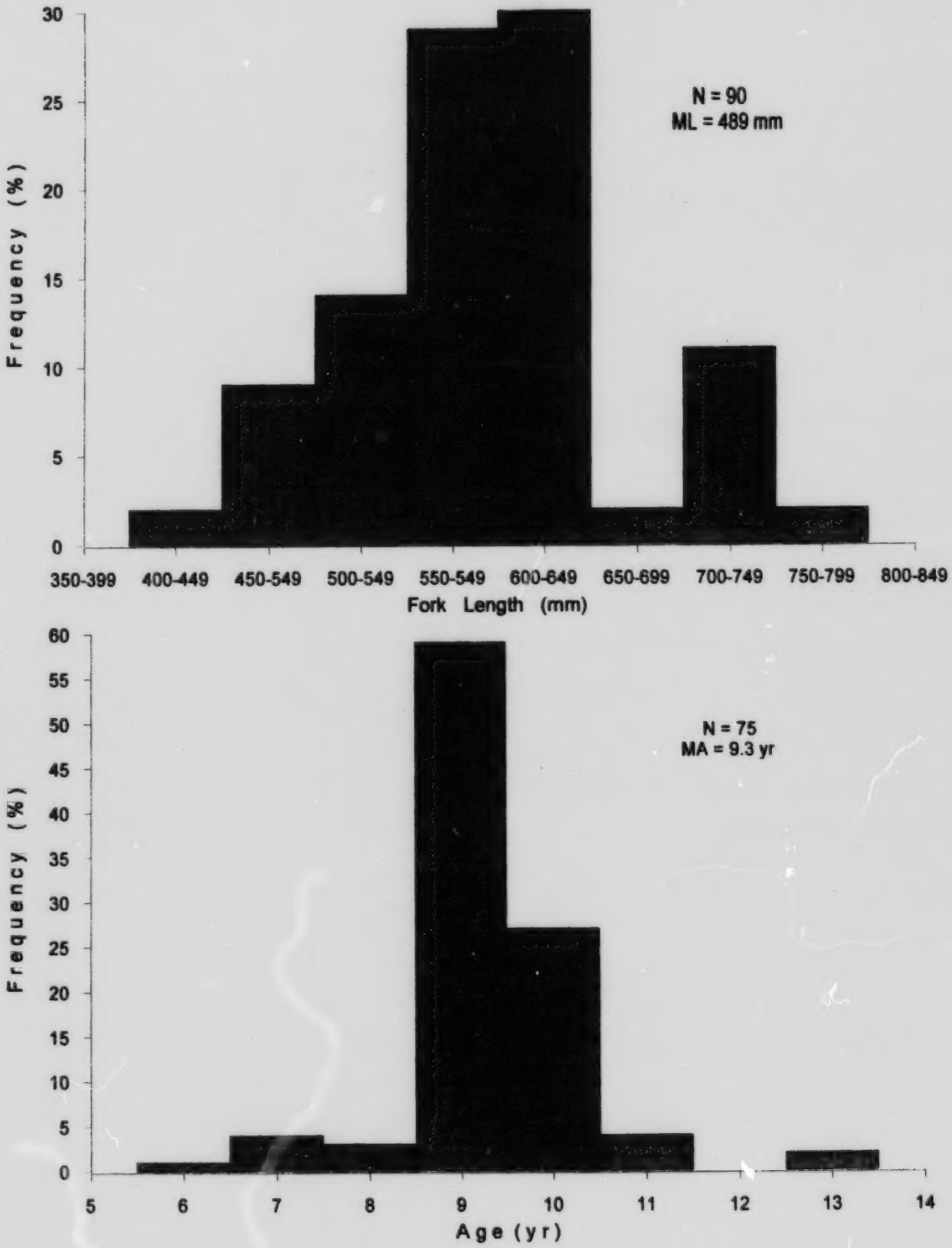


Figure 4. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Qakkiaq Lake (Arctic Bay), December 1998.

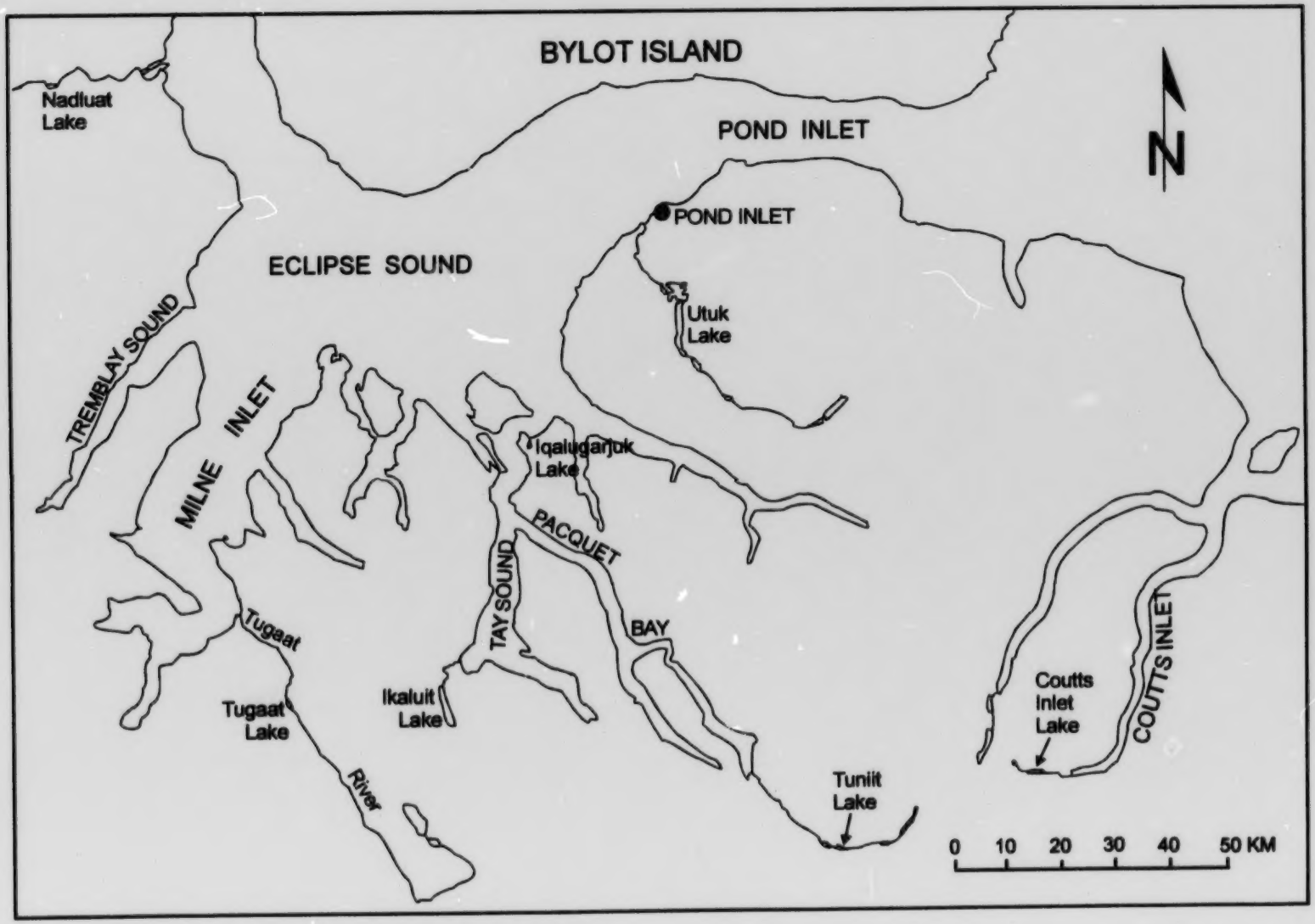


Figure 5. Map of Pond Inlet area showing local fishing sites.

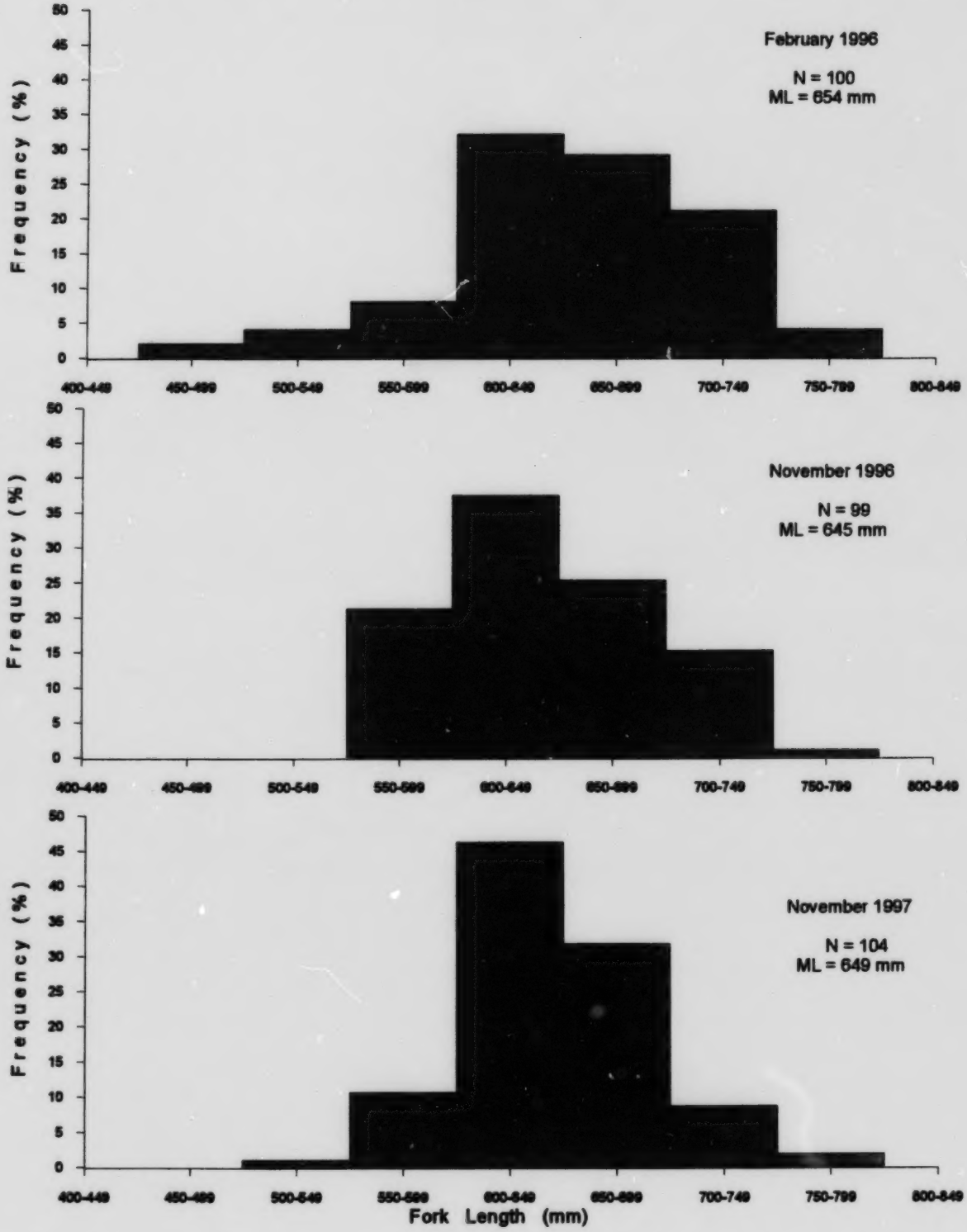


Figure 6. Length-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Ikaluit Lake (Pond Inlet), February 1996 and November 1996 and 1997.

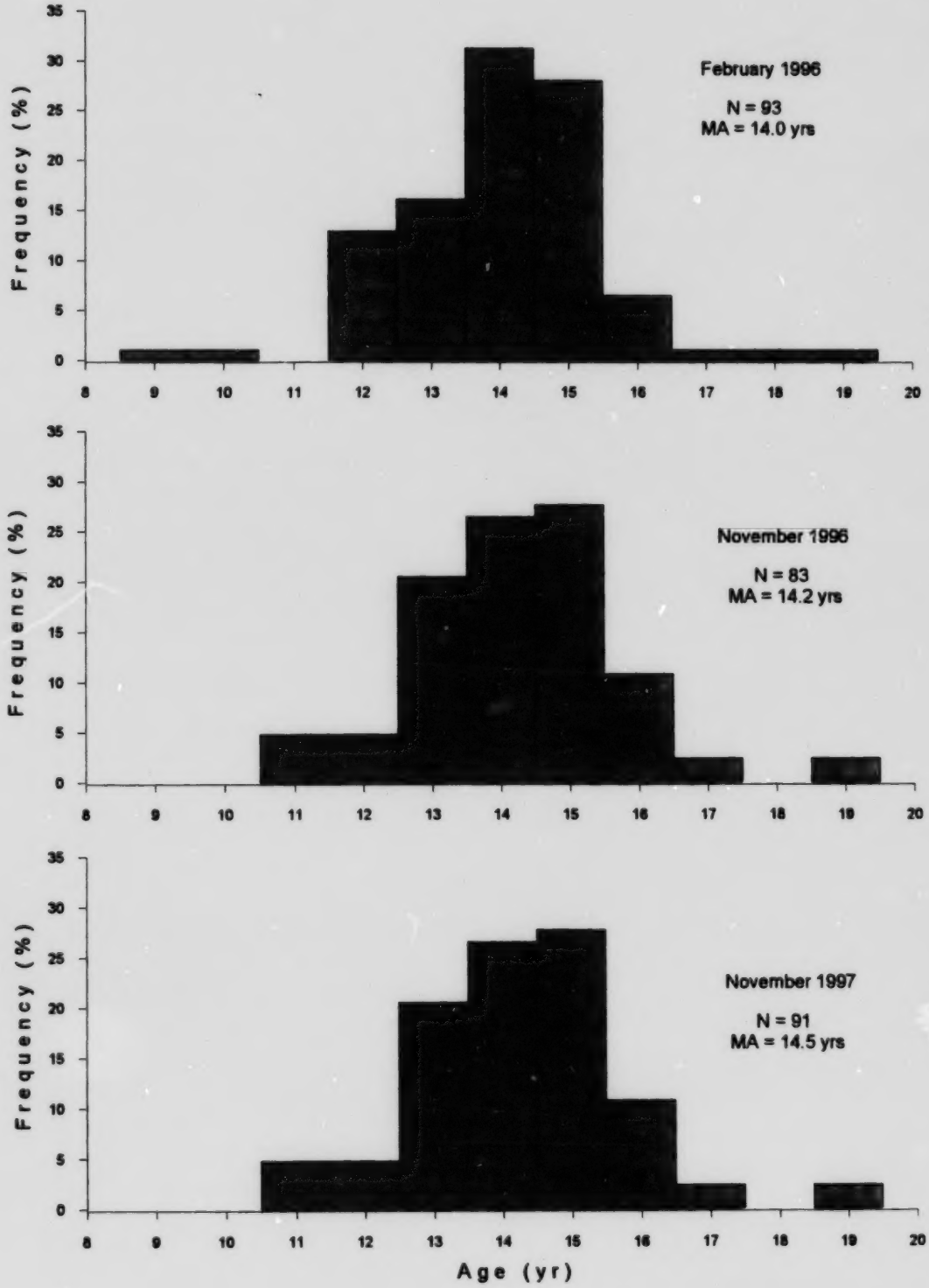


Figure 7. Age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Ikaluit Lake (Pond Inlet), February 1996 and November 1996 and 1997.

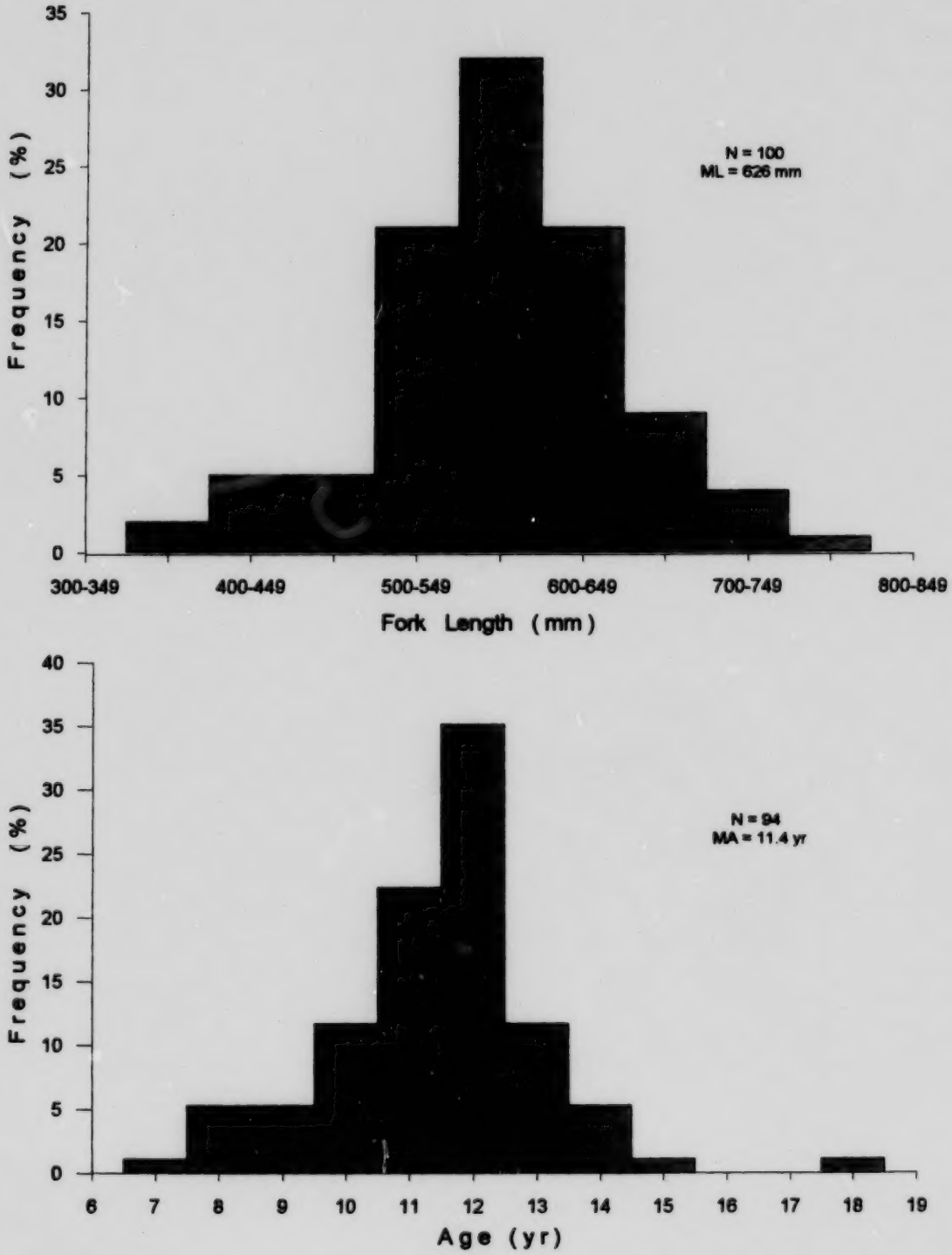


Figure 8. Length and age-frequency distributions of Arctic charr sampled form 4.5 and 5.5 inch mesh gill nets, Tugaat Lake (Pond Inlet), February 1996.

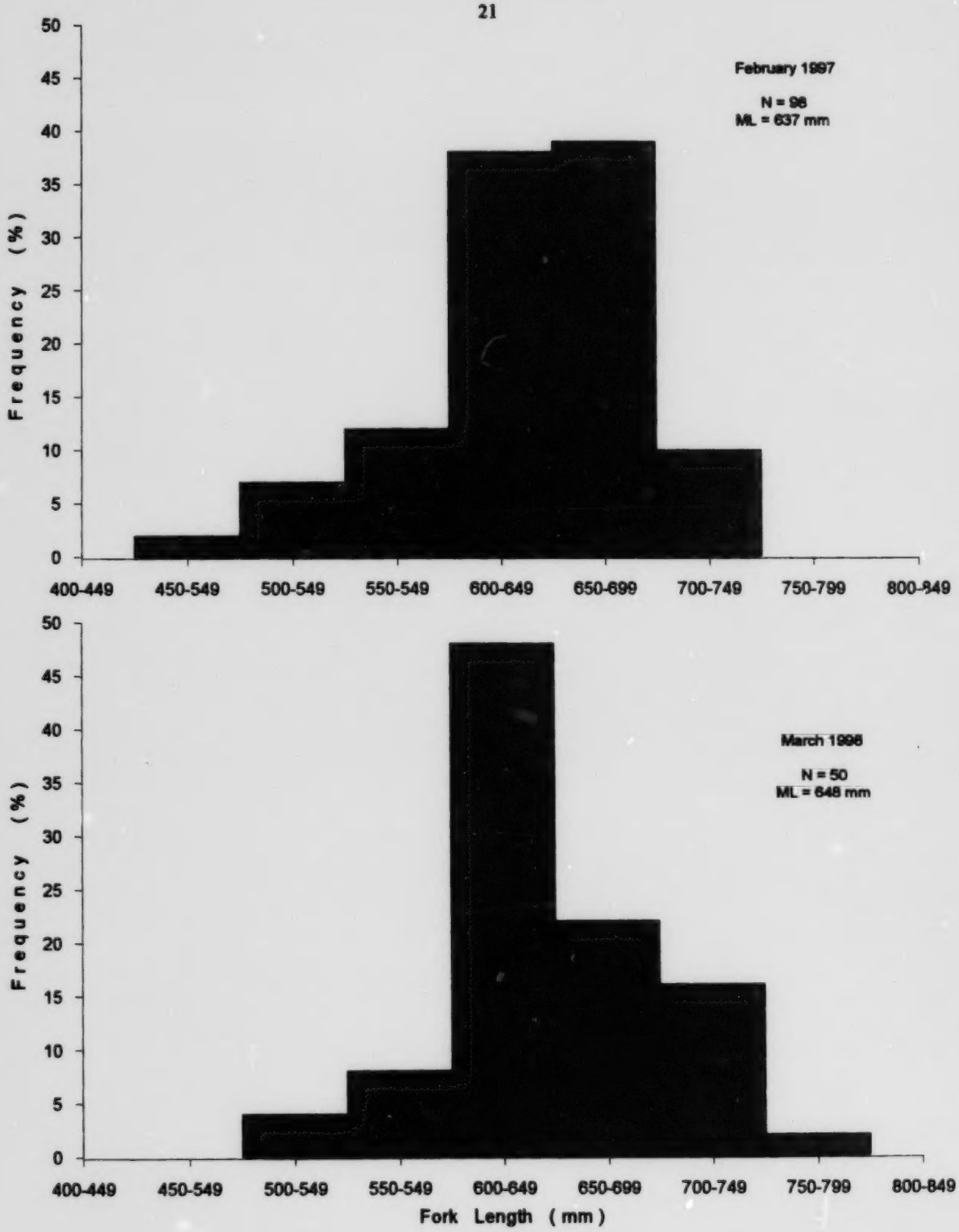


Figure 9. Length-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Coutts Inlet Lake (Pond Inlet), February 1997 and March 1998.

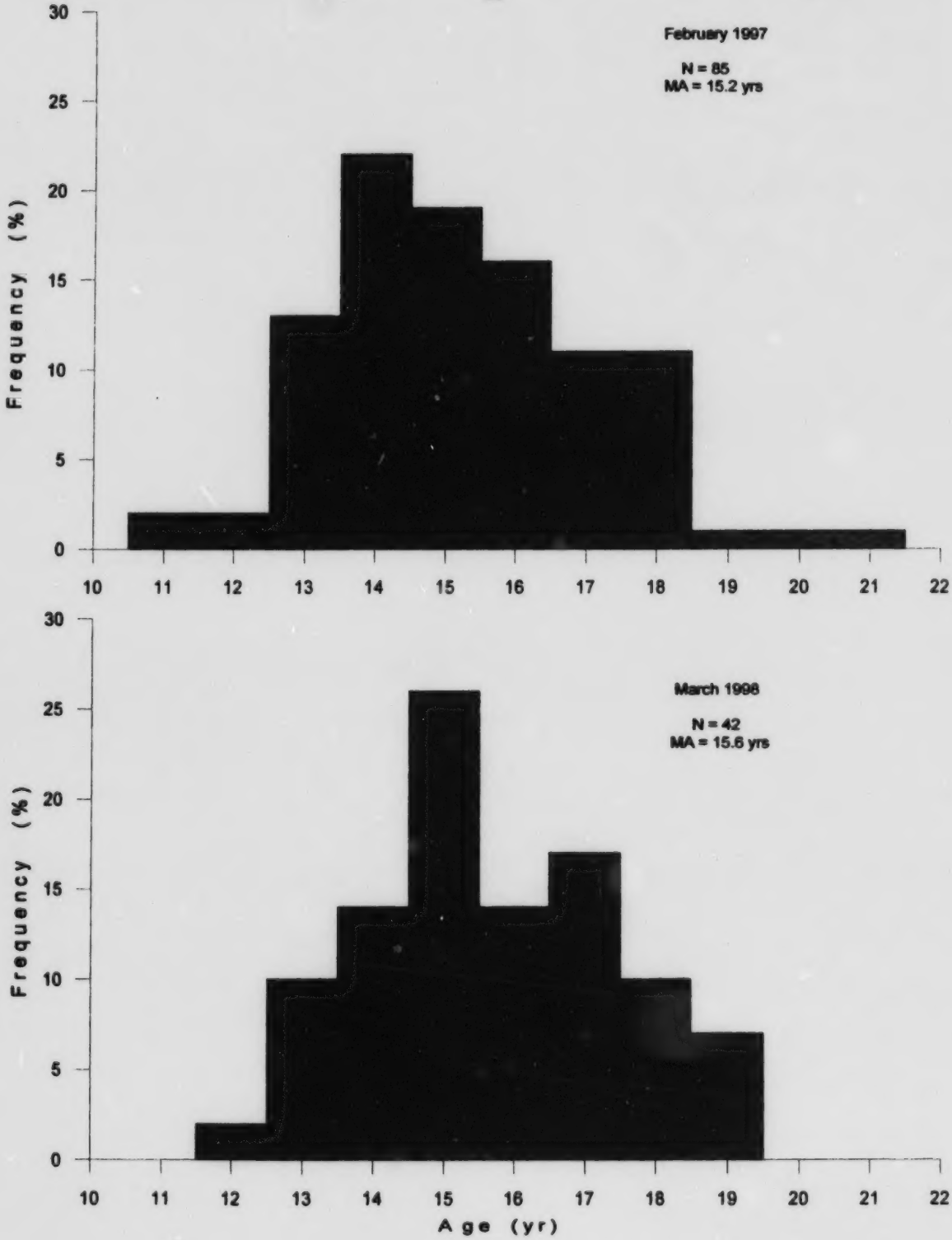


Figure 10. Age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Coutts Inlet Lake (Pond Inlet), February 1997 and March 1998.

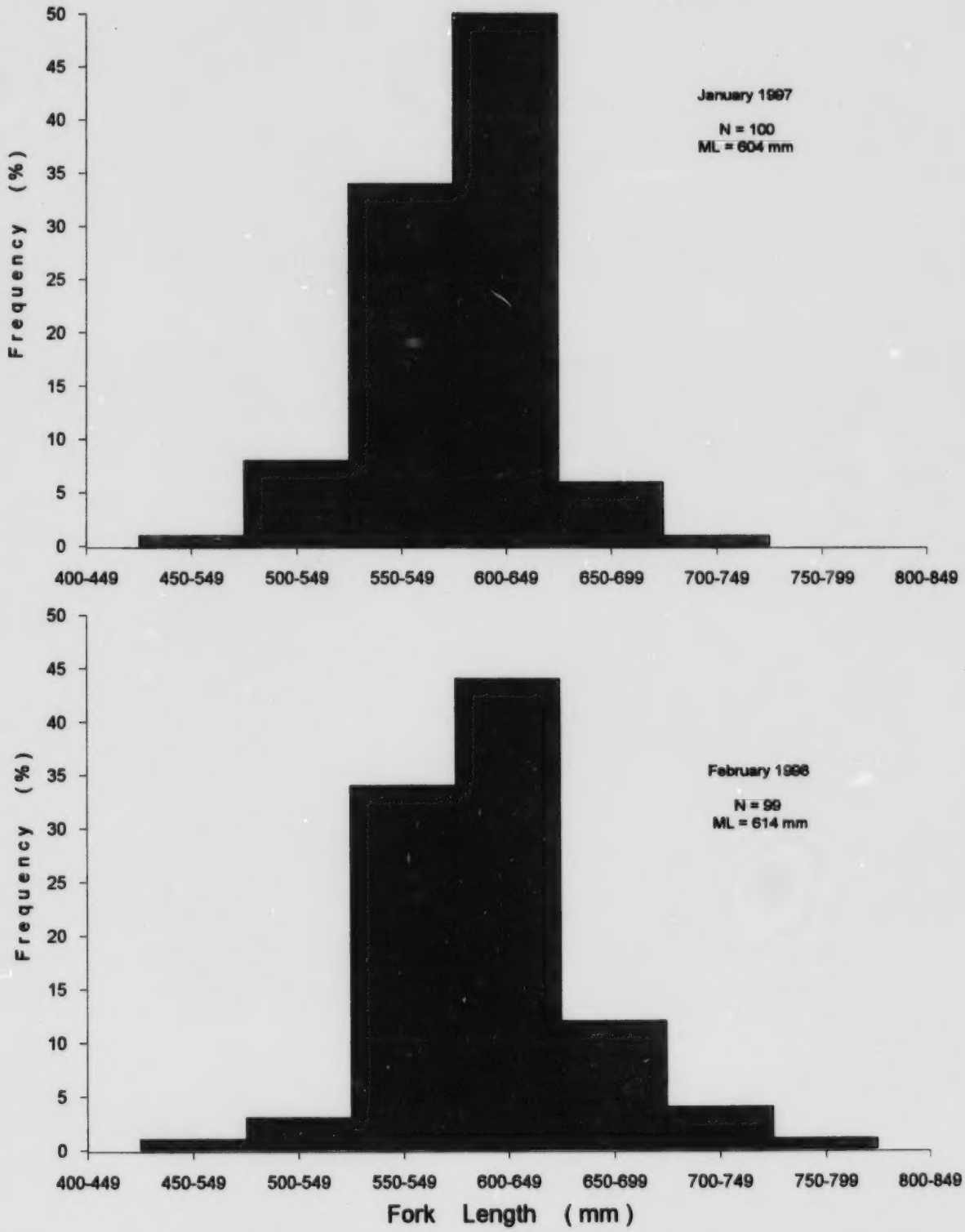


Figure 11. Length-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Tuniit Lake (Pond Inlet), January 1997 and February 1998.

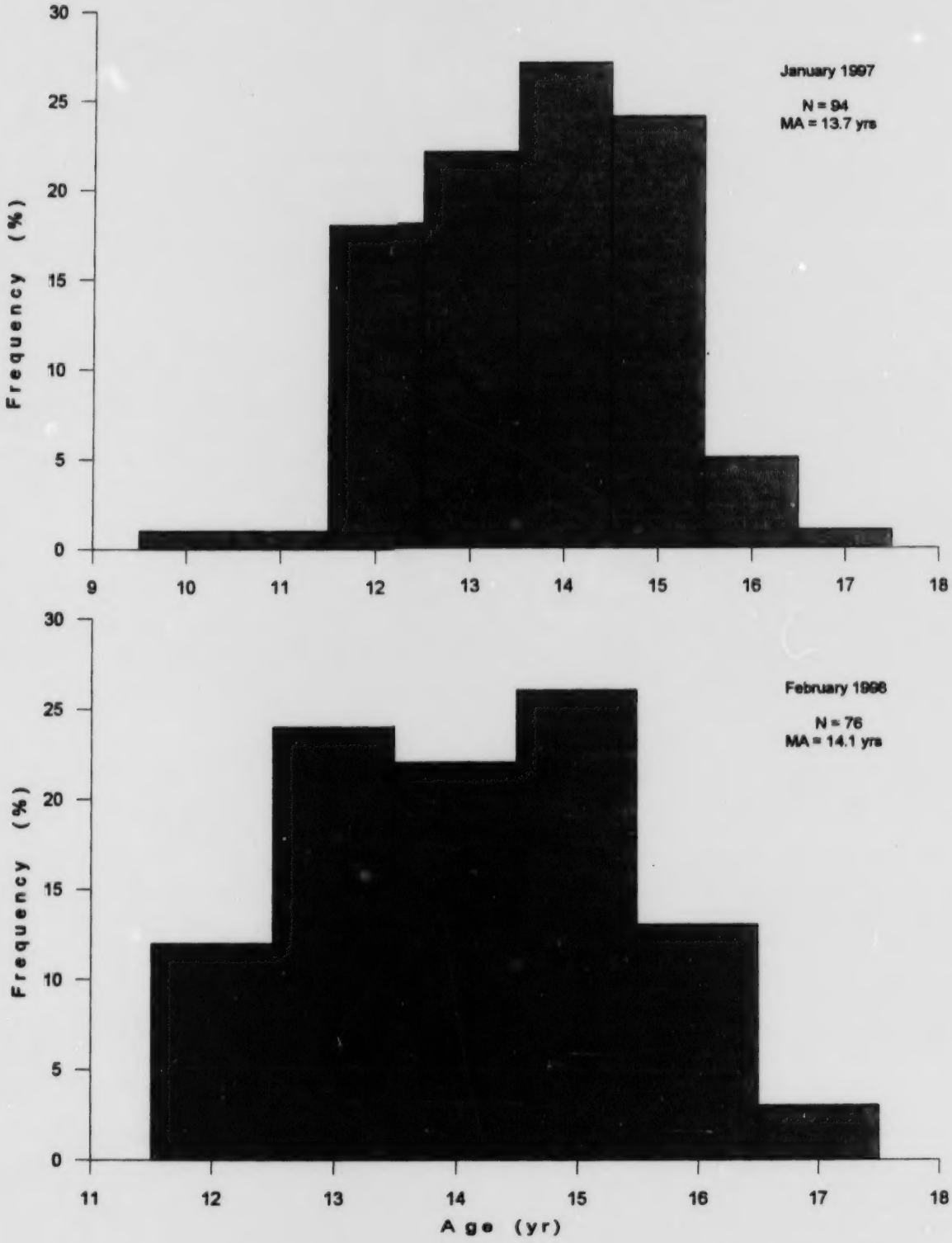


Figure 12. Age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Tuniit Lake (Pond Inlet), January 1997 and February 1998.

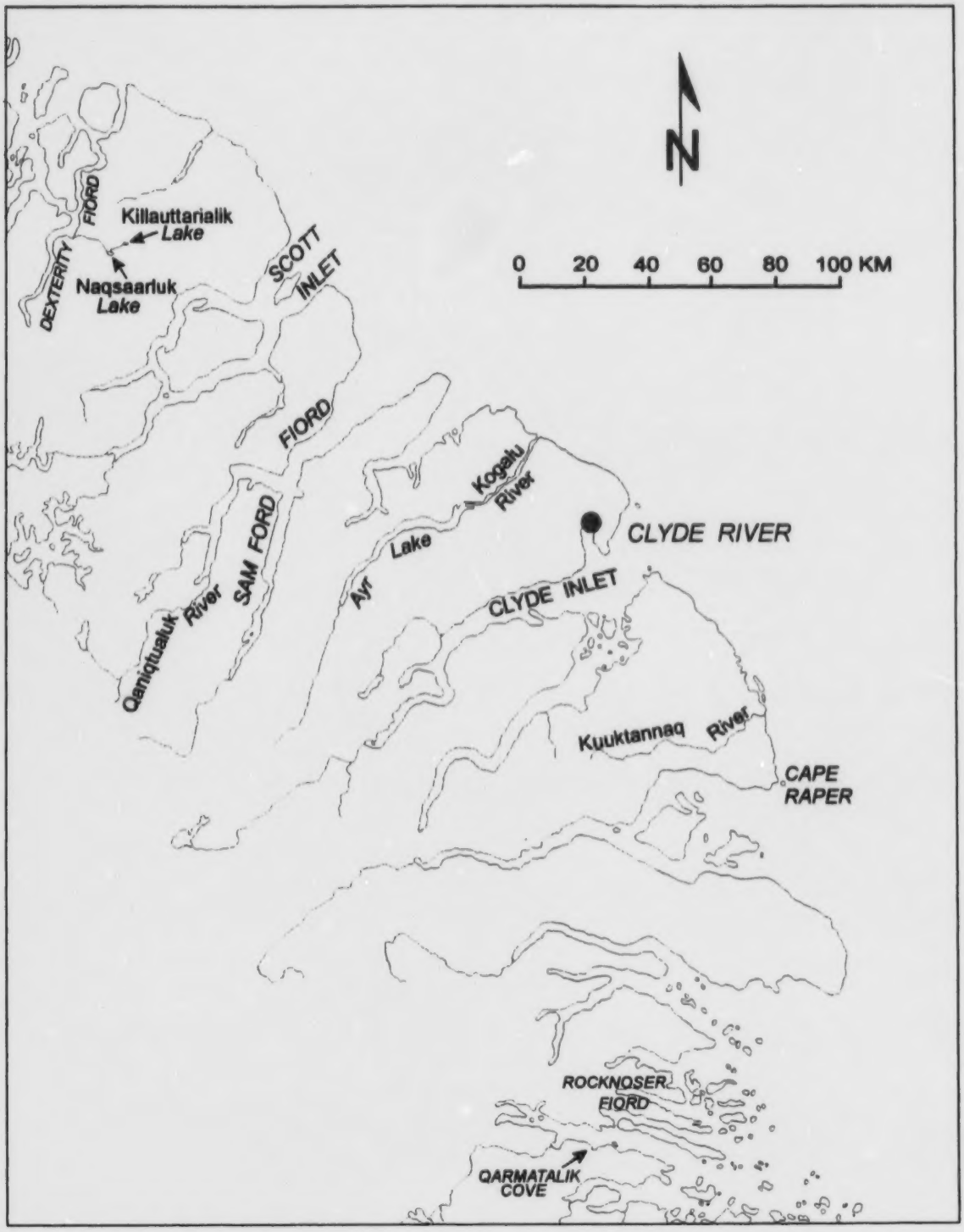


Figure 13. Map of Clyde River area showing local fishing sites.

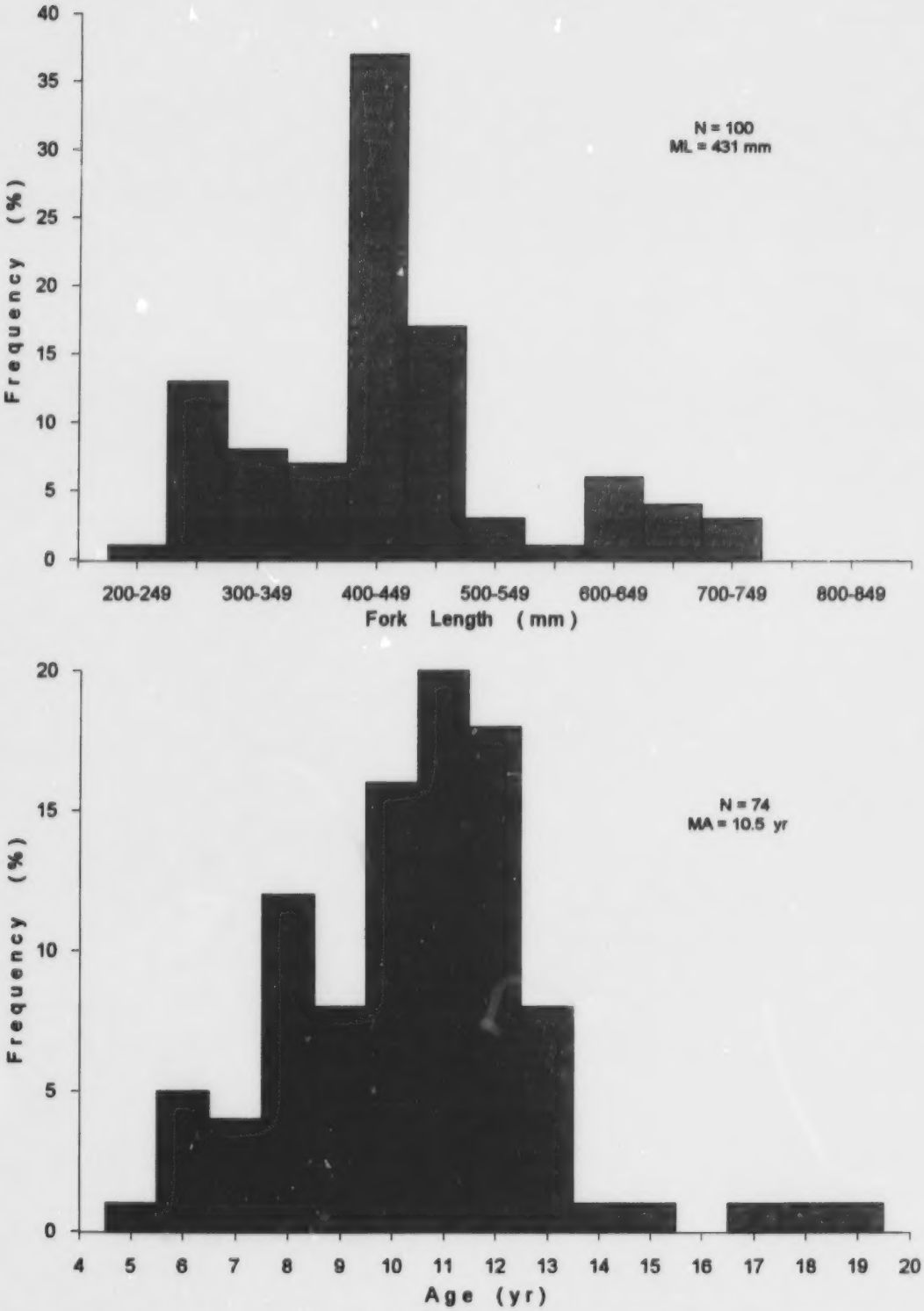


Figure 14. Length and age-frequency distributions of Arctic charr sampled from all gears (5.5 inch mesh gill nets, rod and reel and trap nets) Kuuktannaq River (Clyde River), August 1995.

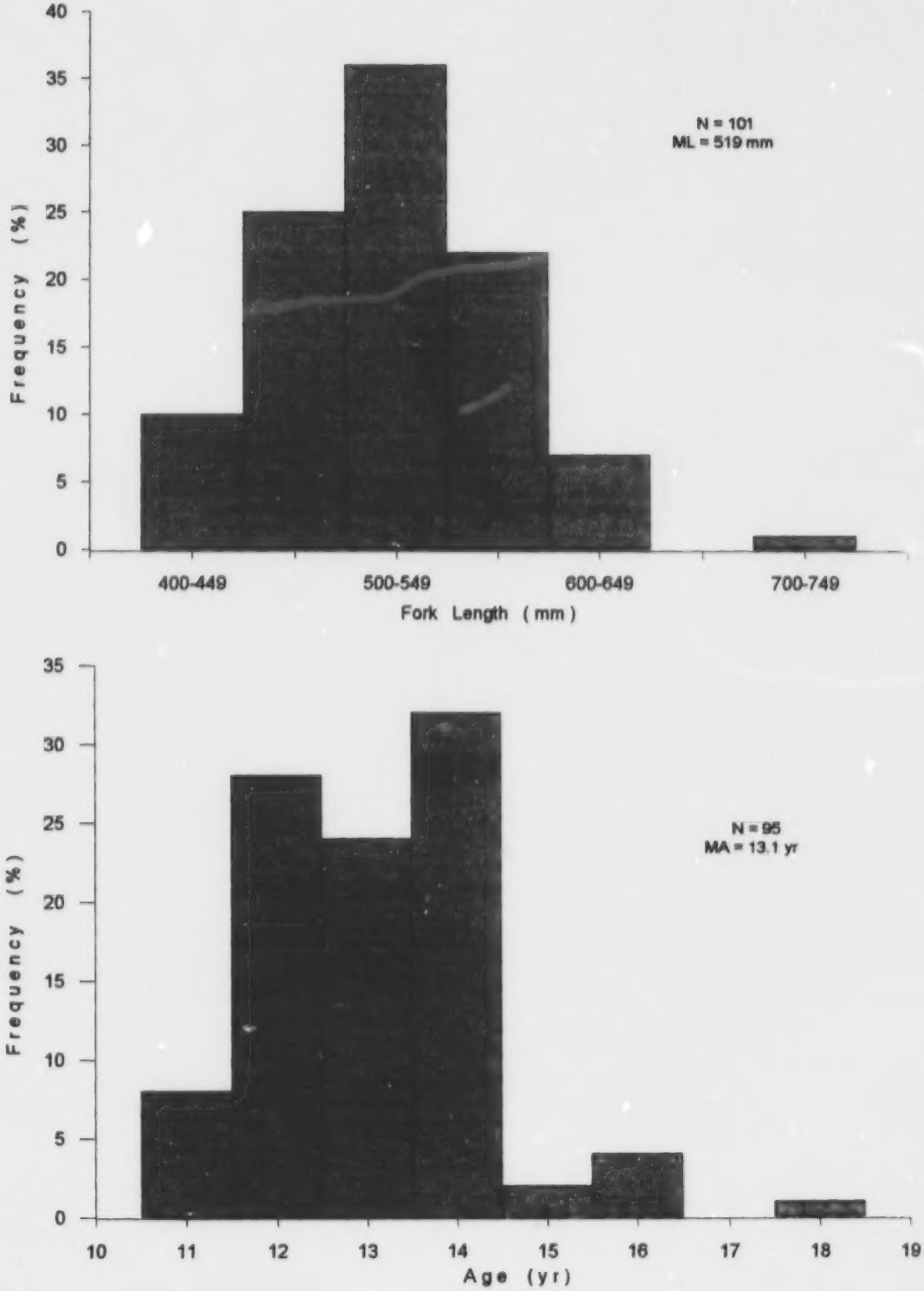


Figure 15. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Kogalu River (Clyde River), August 1996.

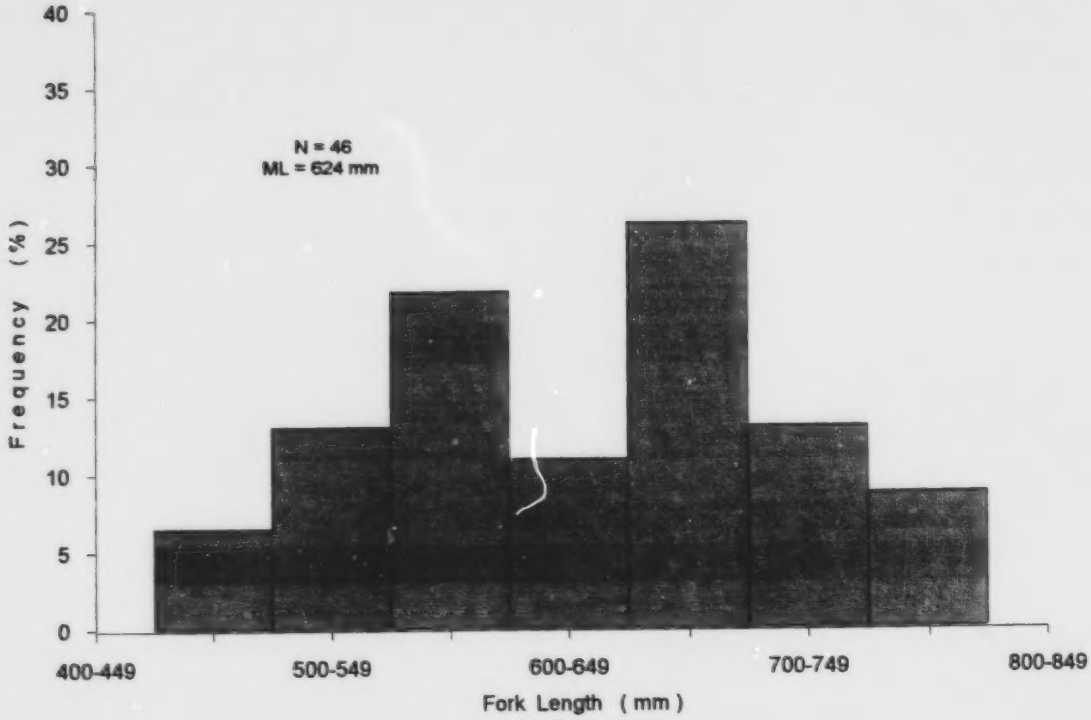


Figure 16. Length-frequency distribution of Arctic charr sampled by angling, Naqsaarluk Lake (Clyde River), June 1996.

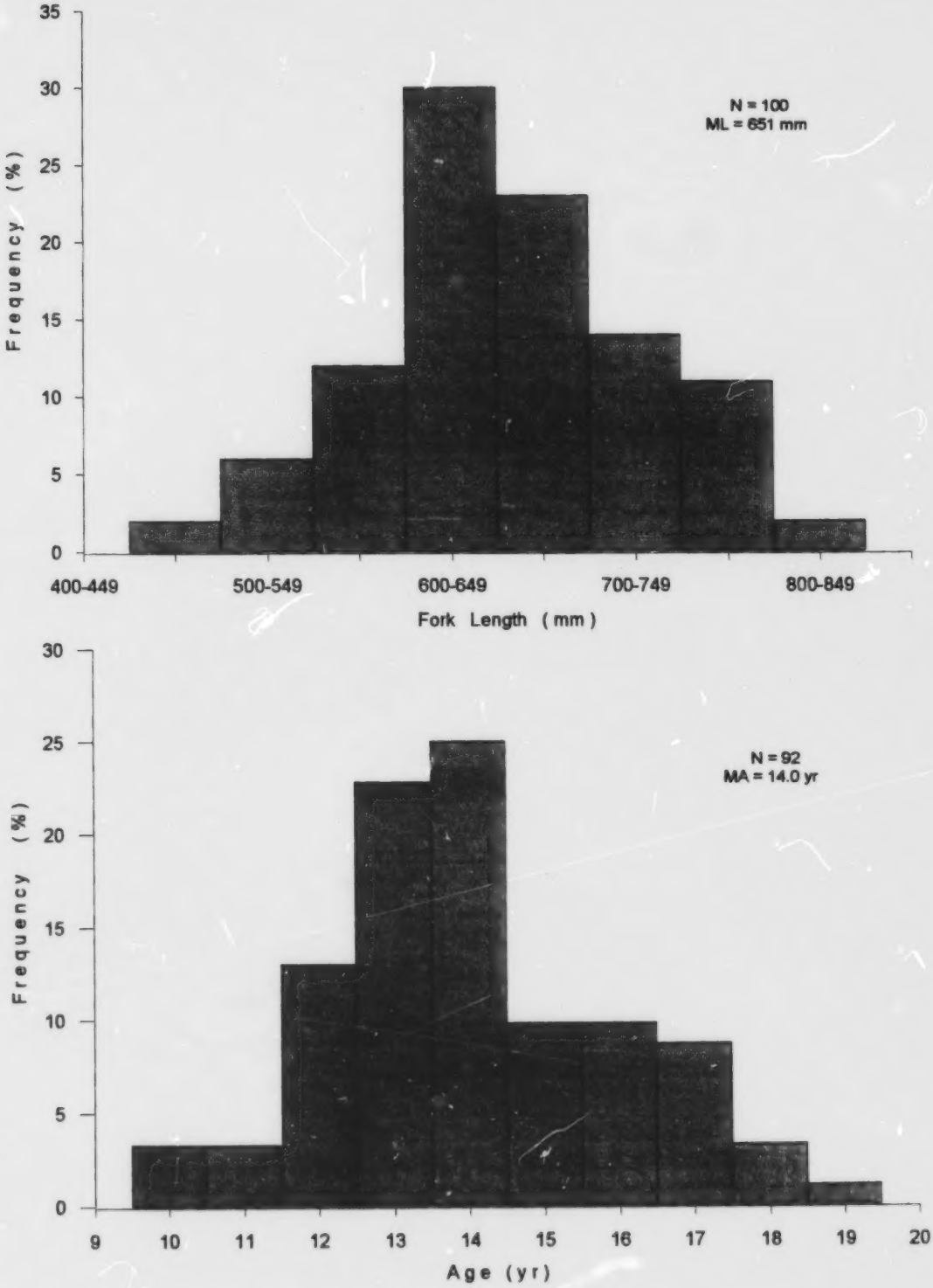


Figure 17. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Naqsaarluk Lake (Clyde River), May 1997.

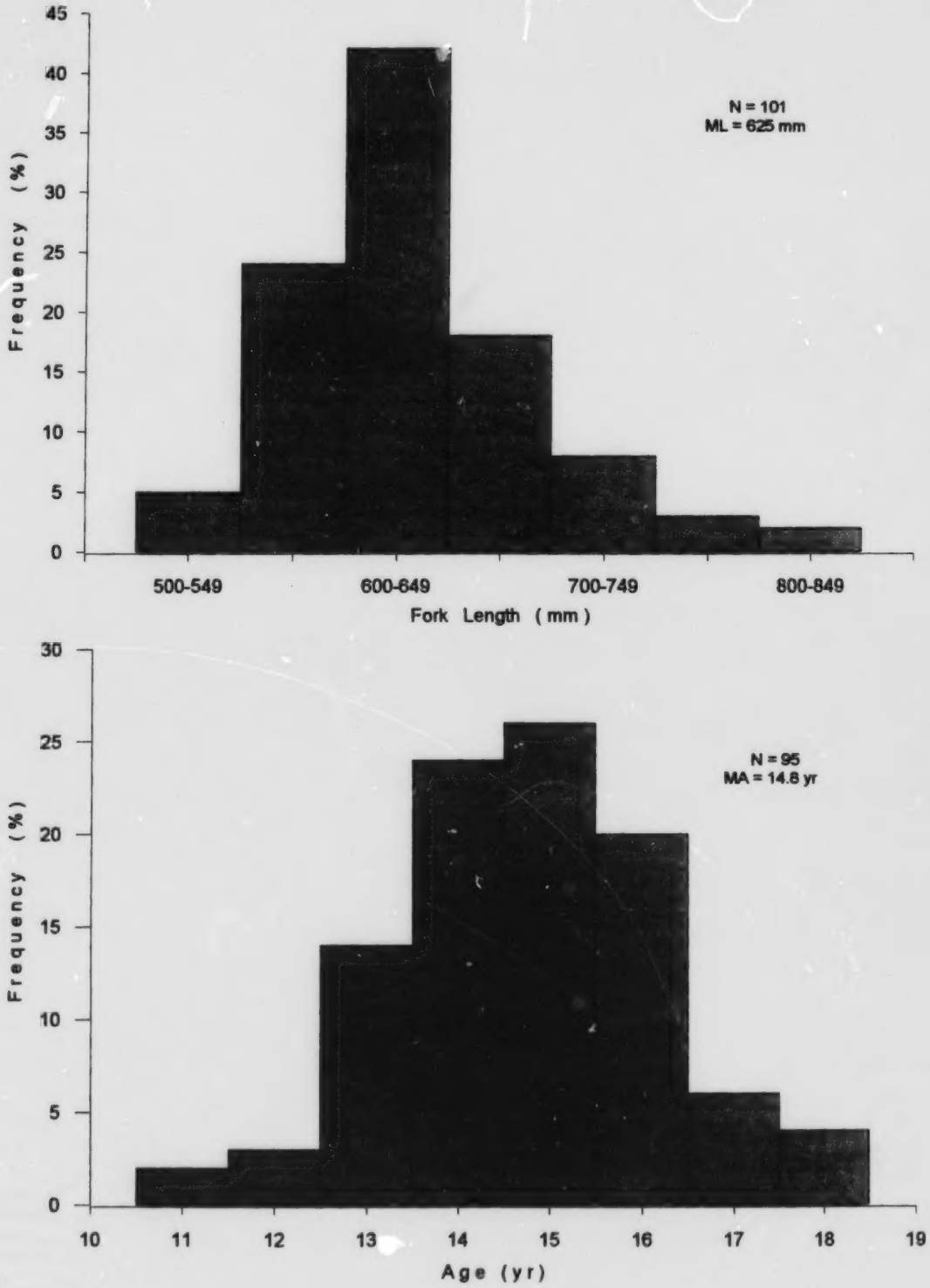


Figure 18. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Sam Ford Fiord (Clyde River), March 1998.

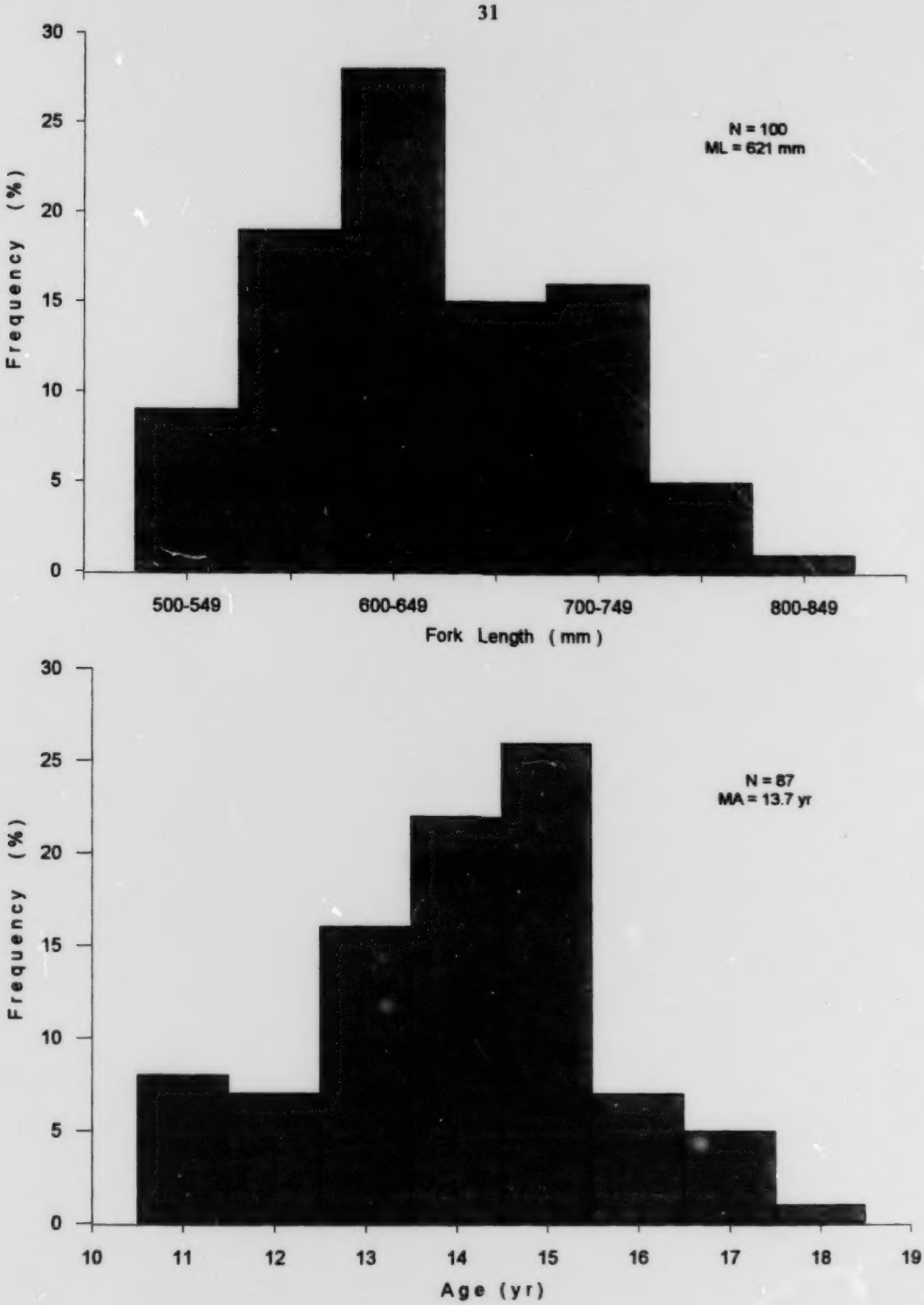


Figure 19. Length and age-frequency distributions of Arctic charr sampled from 5.0 inch mesh gill nets, Killautarialik Lake (Clyde River), March 1999.

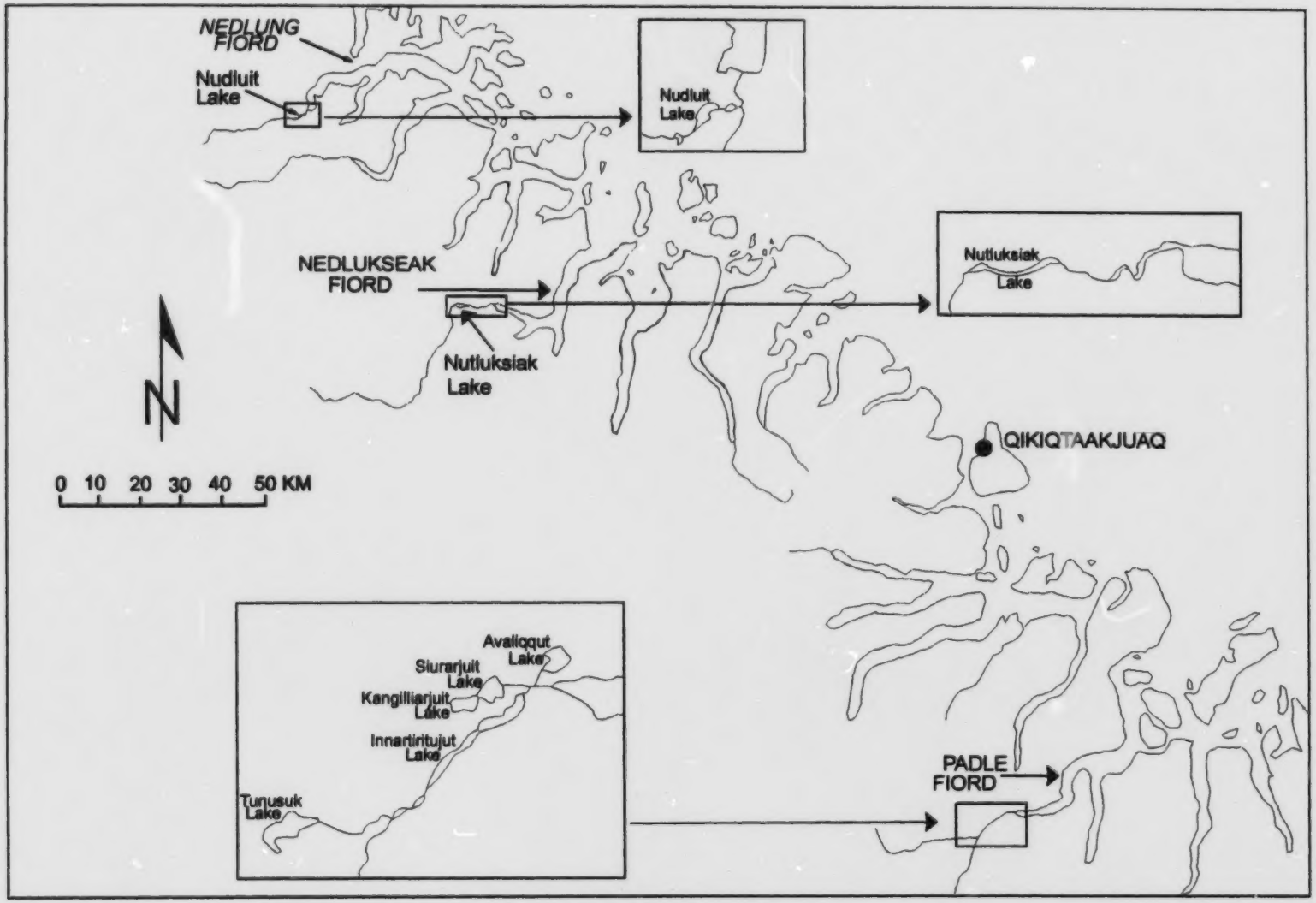


Figure 20. Map of Qikiqtaarjuaq area showing local fishing sites.

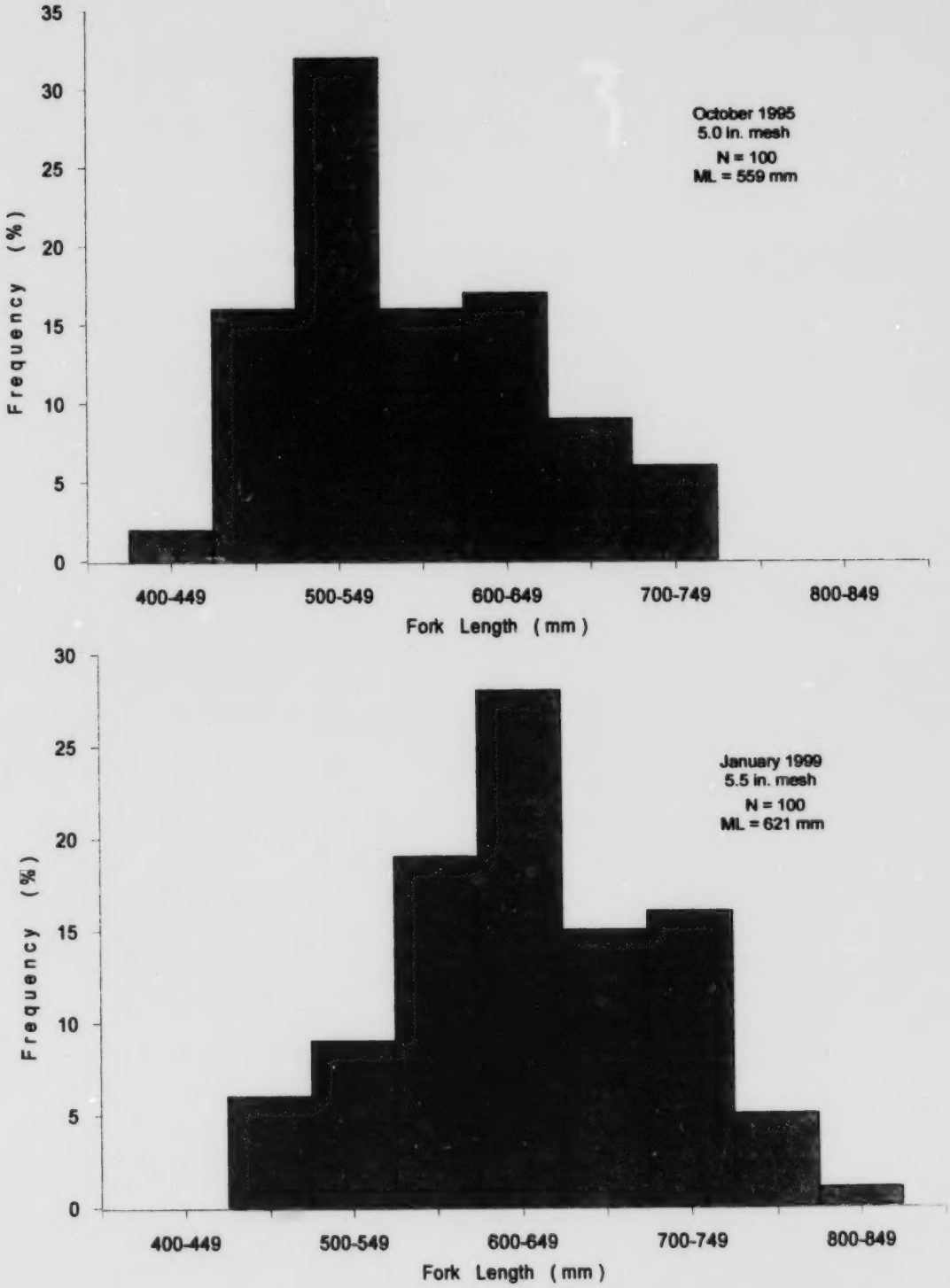


Figure 21. Length-frequency distributions of Arctic charr sampled from 5.0 and 5.5 inch mesh gill nets, Natluksiak Lake (Qikiqtaarjuaq), October 1995 and January 1999.

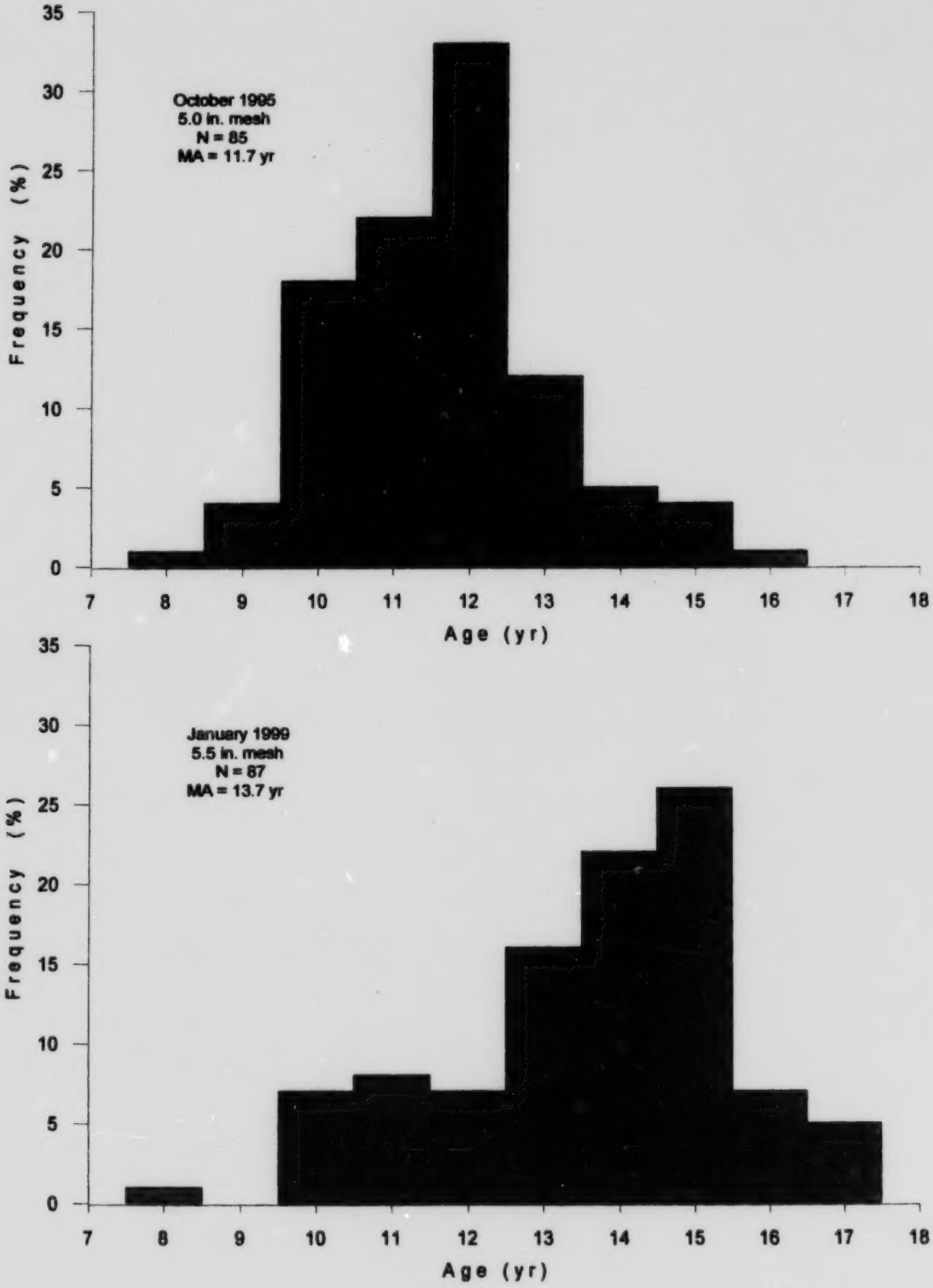


Figure 22. Age-frequency distributions of Arctic charr sampled from 5.0 and 5.5 inch mesh gill nets, Natluksiak Lake (Qikiqtaarjuaq), October 1995 and January 1999.

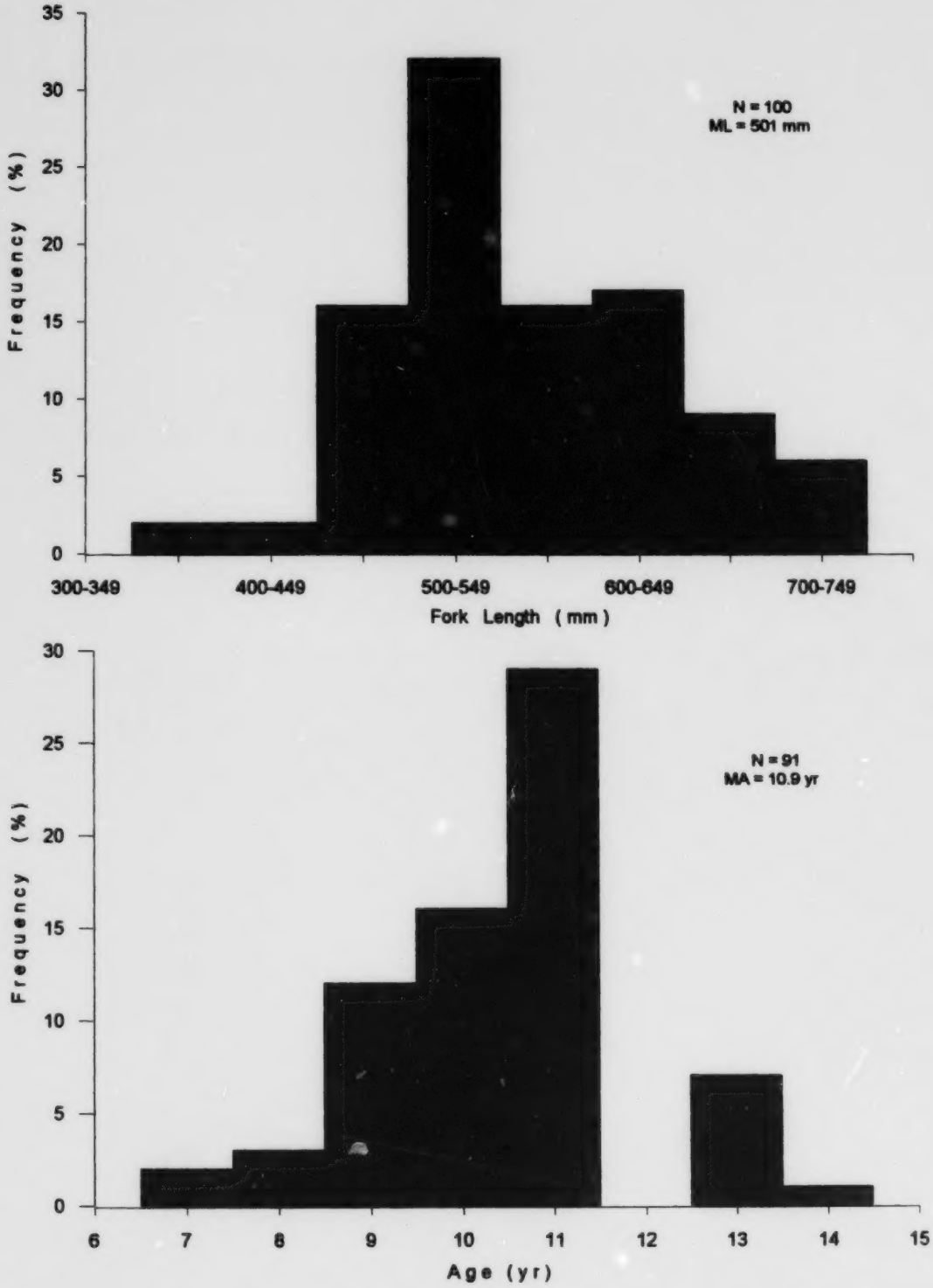


Figure 23. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Nudluit Lake (Qikiqtaarjuaq), January 1996.

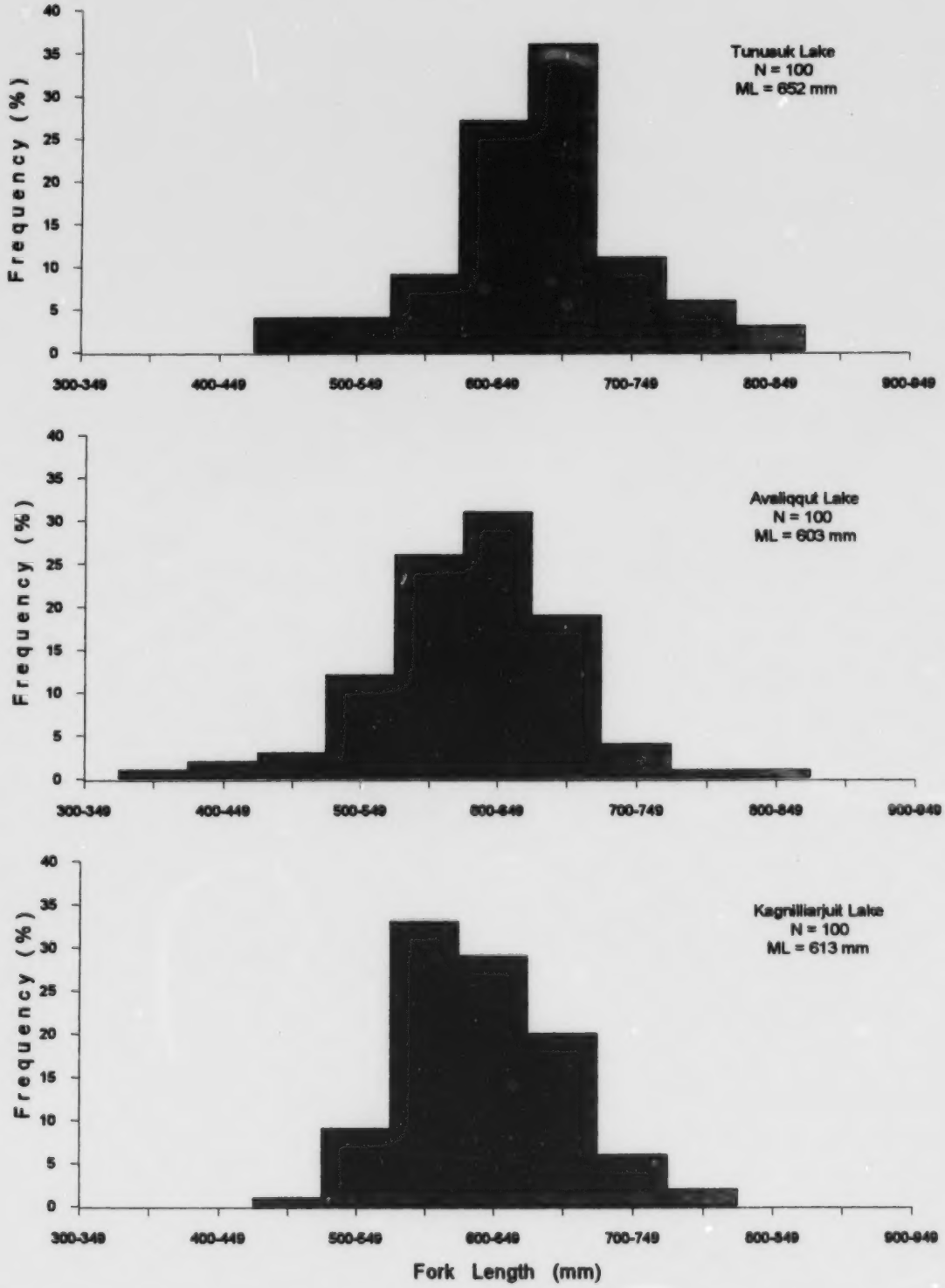


Figure 24. Length-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Tunusuk Lake, Avaliqqut Lake and Kagnilliarjuit Lake (Qikiqtaarjuaq), March 1997.

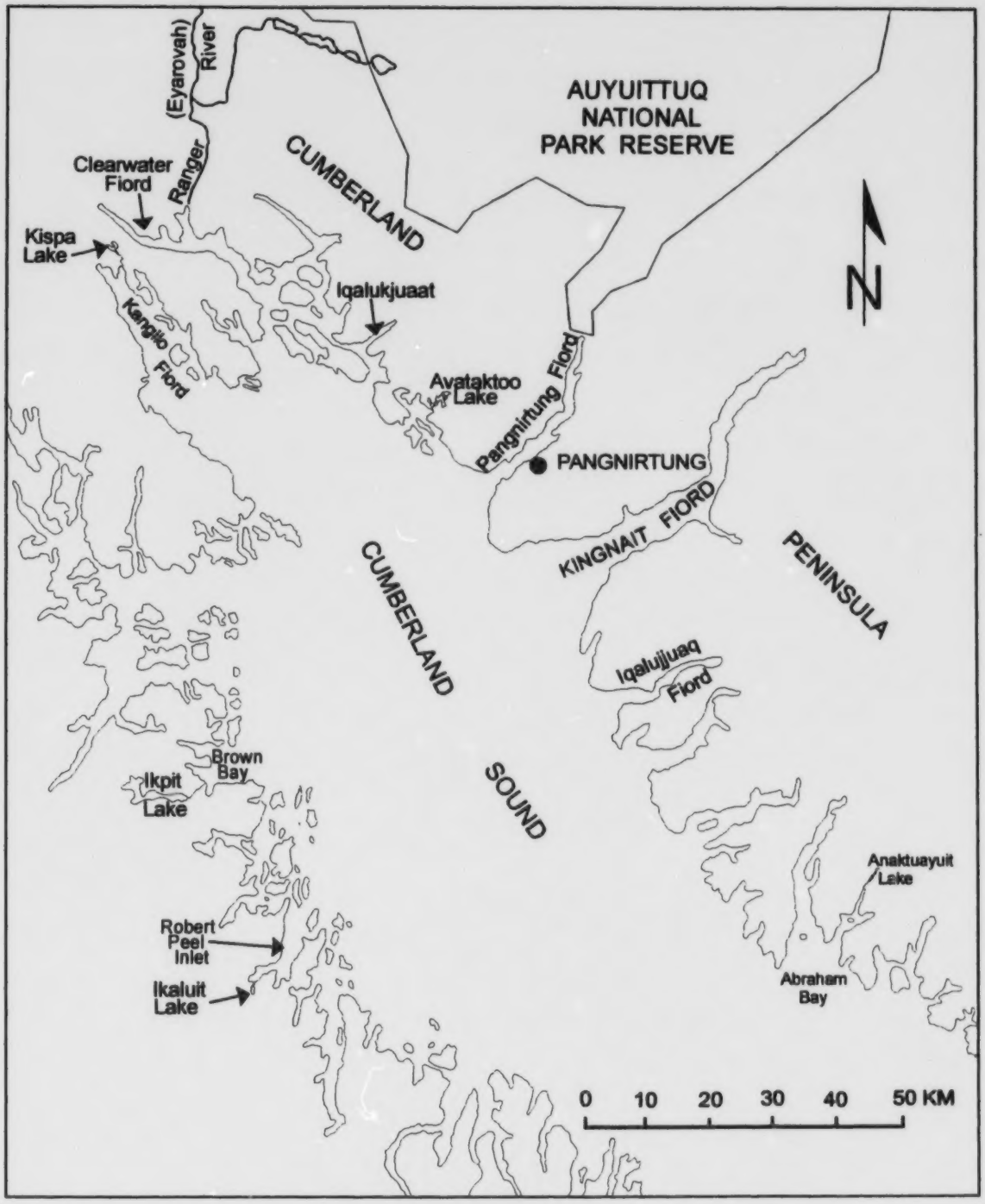


Figure 25. Map of Pangnirtung area showing local fishing sites.

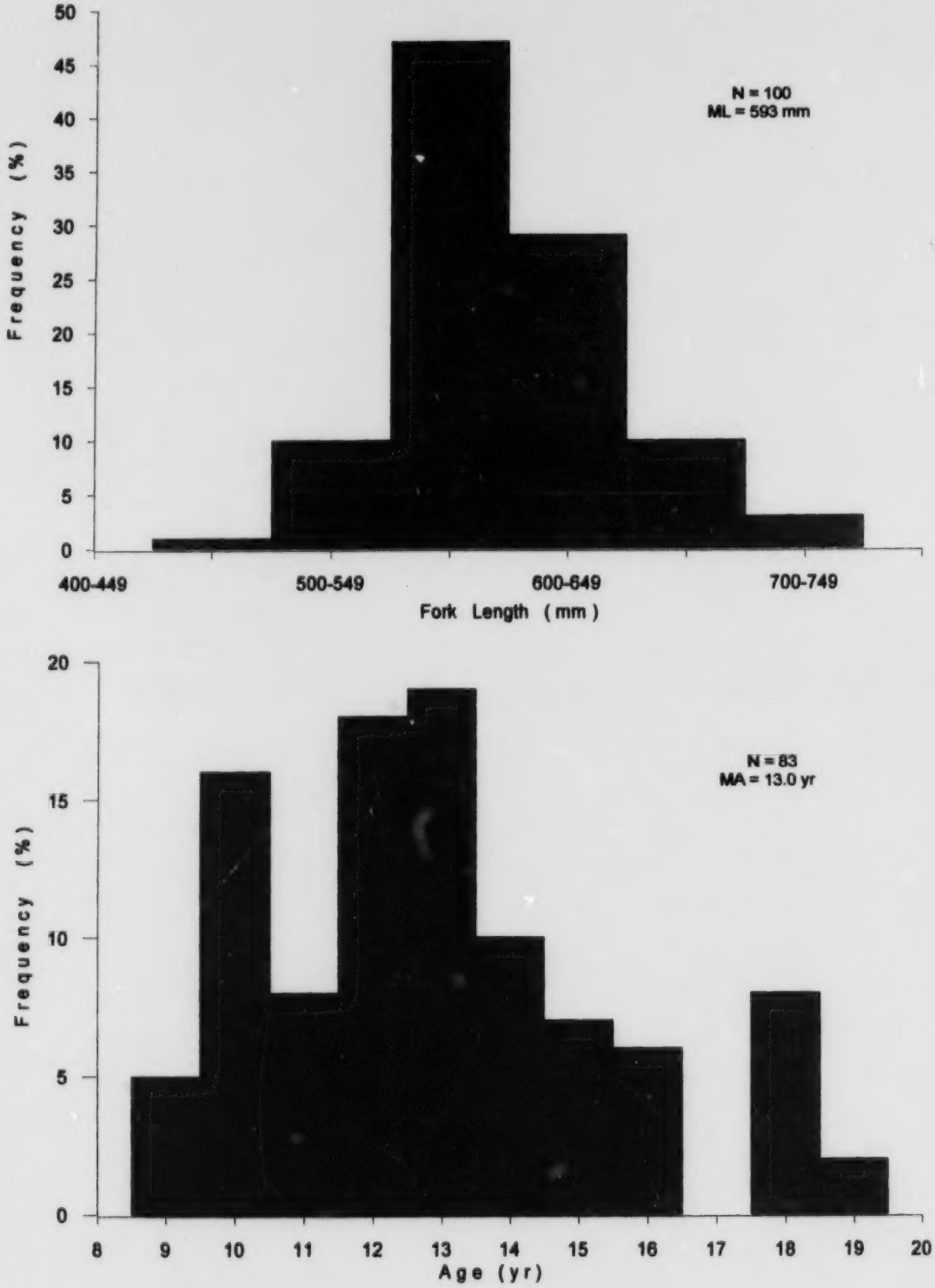


Figure 26. Length and age-frequency distributions of Arctic charr sampled from 5.0 inch mesh gill nets, Kingnait Fiord (Pangnirtung), March 1997.

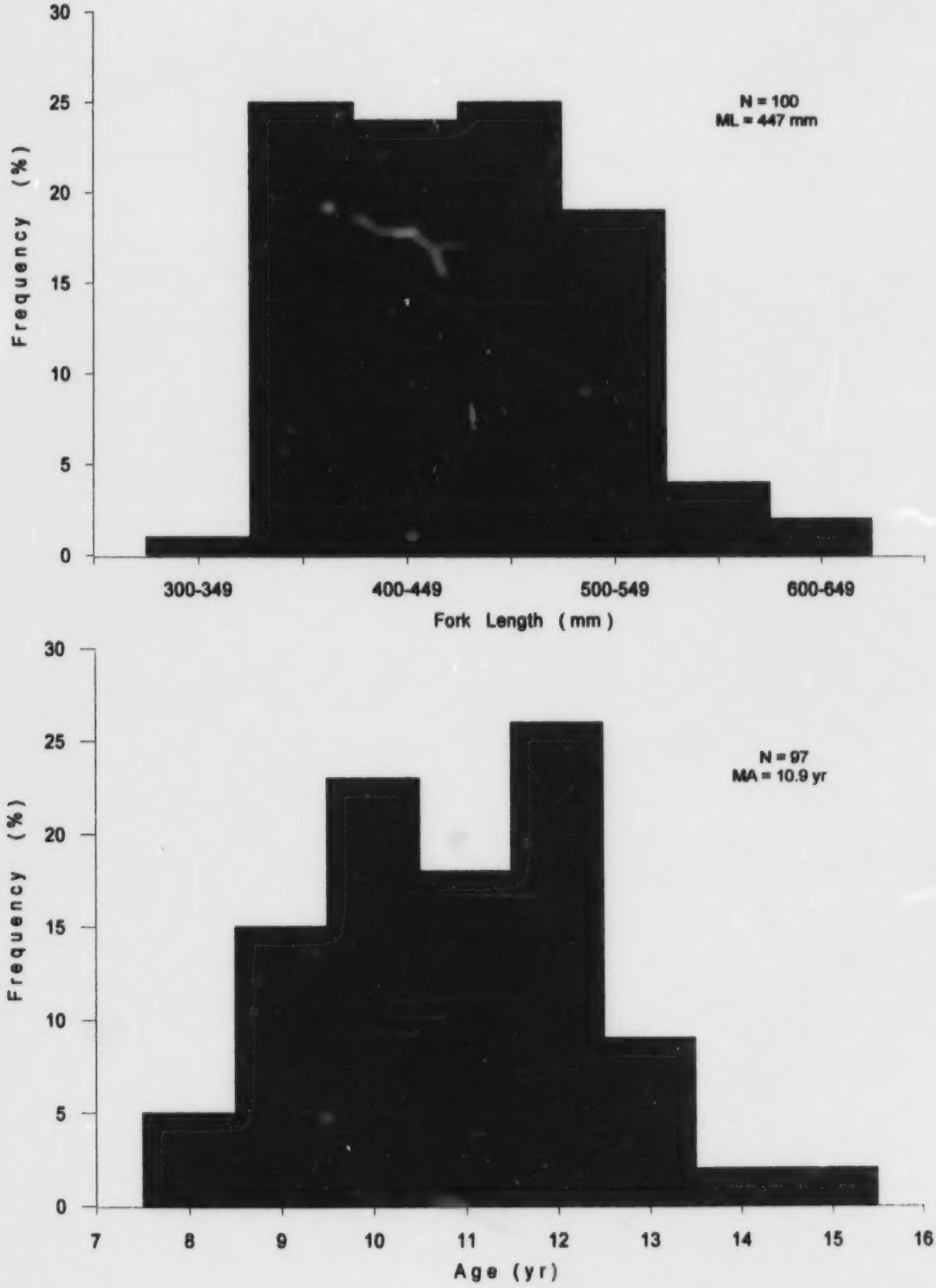


Figure 27. Length and age-frequency distributions of Arctic charr sampled from 1.5 and 3.0 inch mesh gill nets, Avataktuuk Lake (Pangnirtung), May 1997.

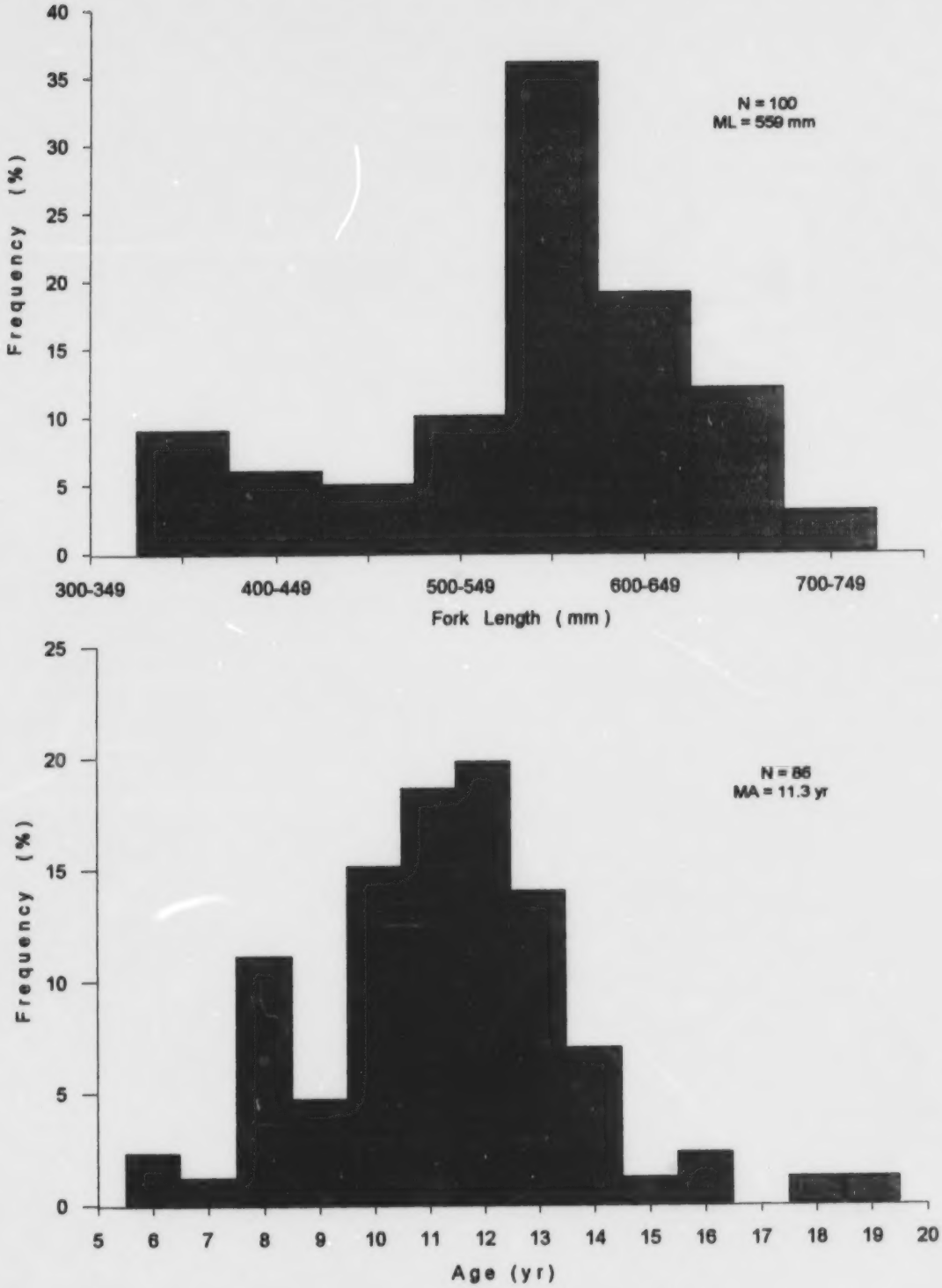


Figure 28. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Iqalujjuaq Fiord (Pangnirtung), August 1997.

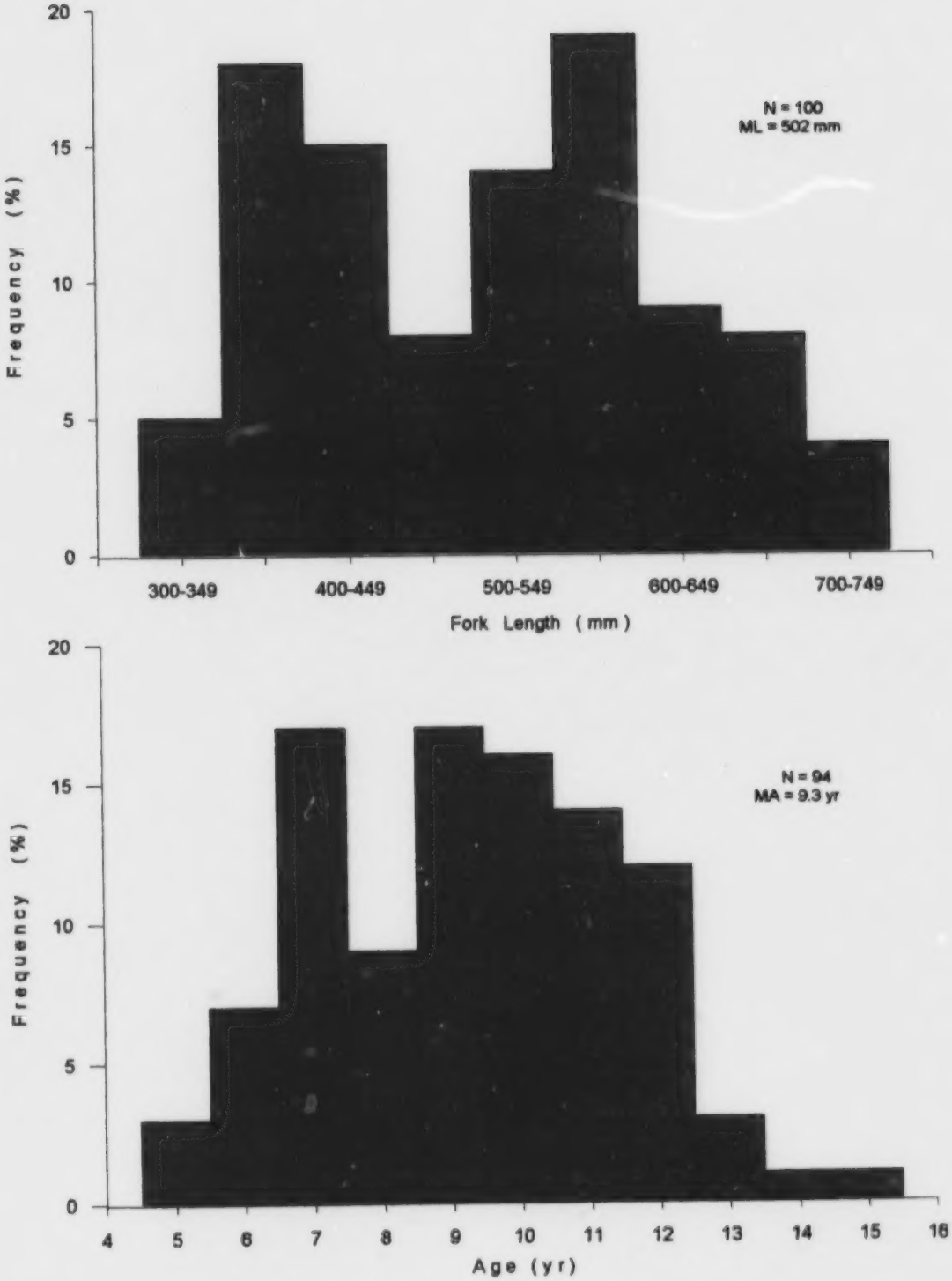


Figure 29. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Iqalukjuaat (Pangnirtung), August 1997.

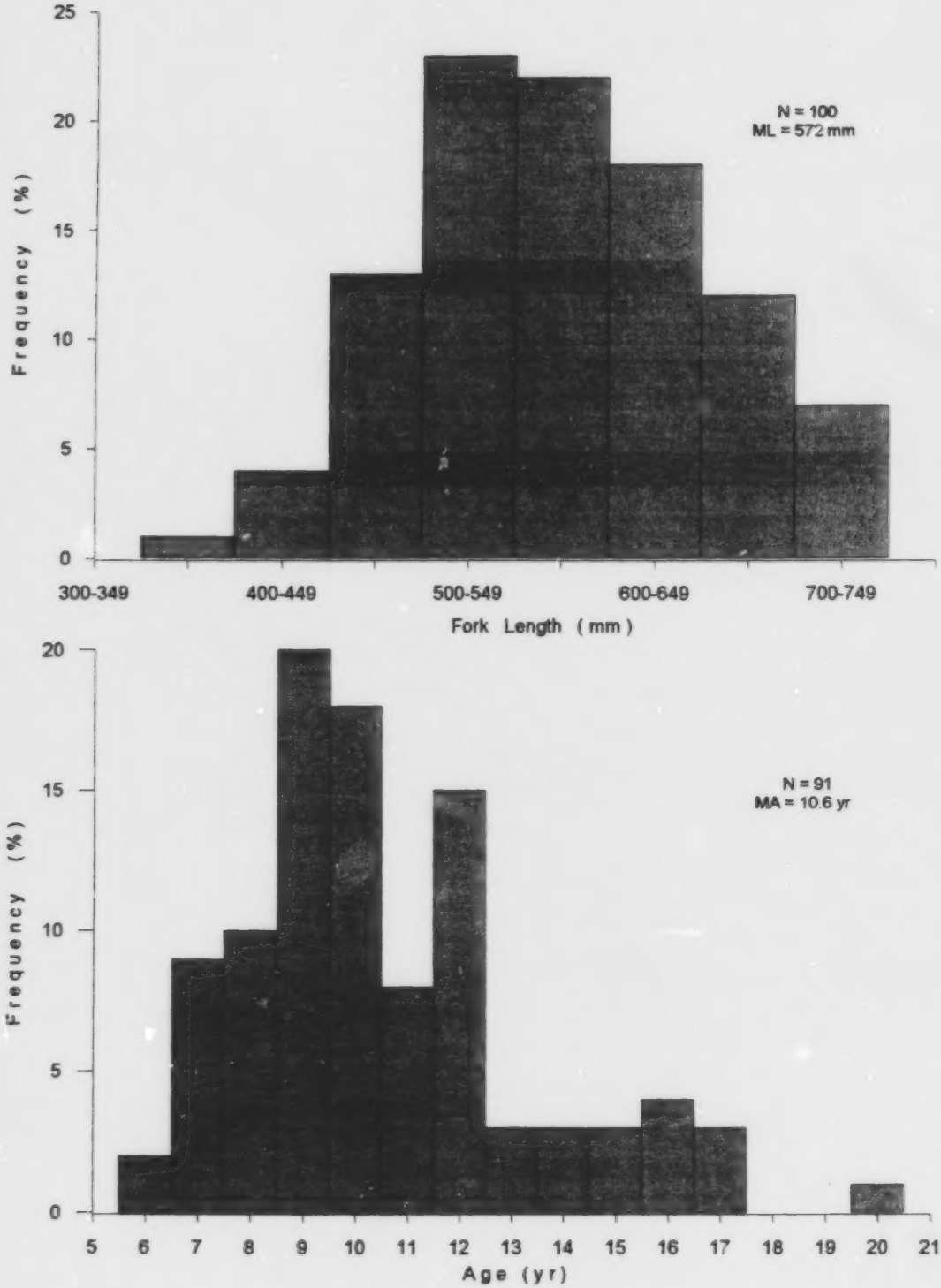


Figure 30. Length and age-frequency distributions of Arctic charr sampled from 5.0 and 5.5 inch mesh gill nets, Kipisa River (Pangnirtung), August 1997.

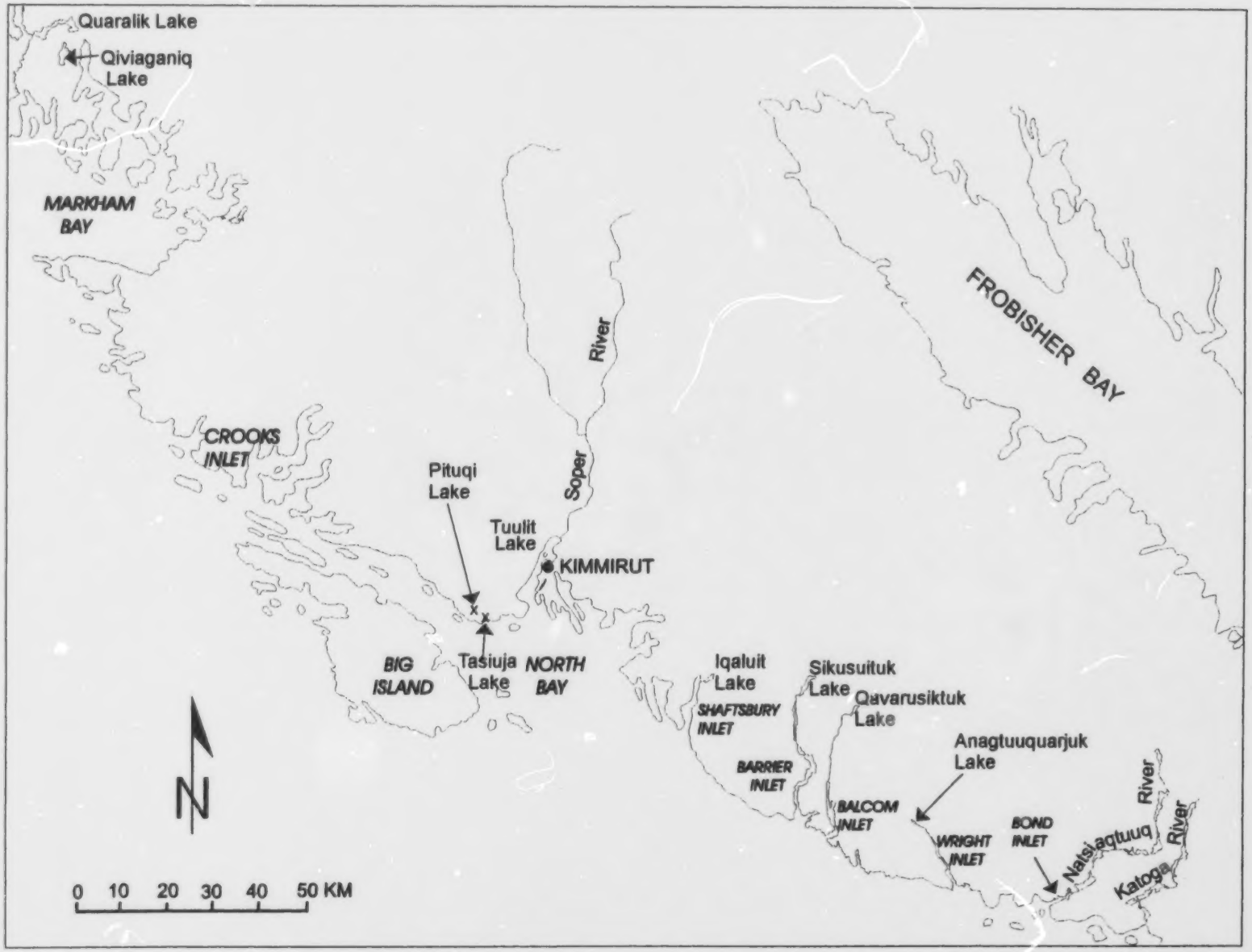
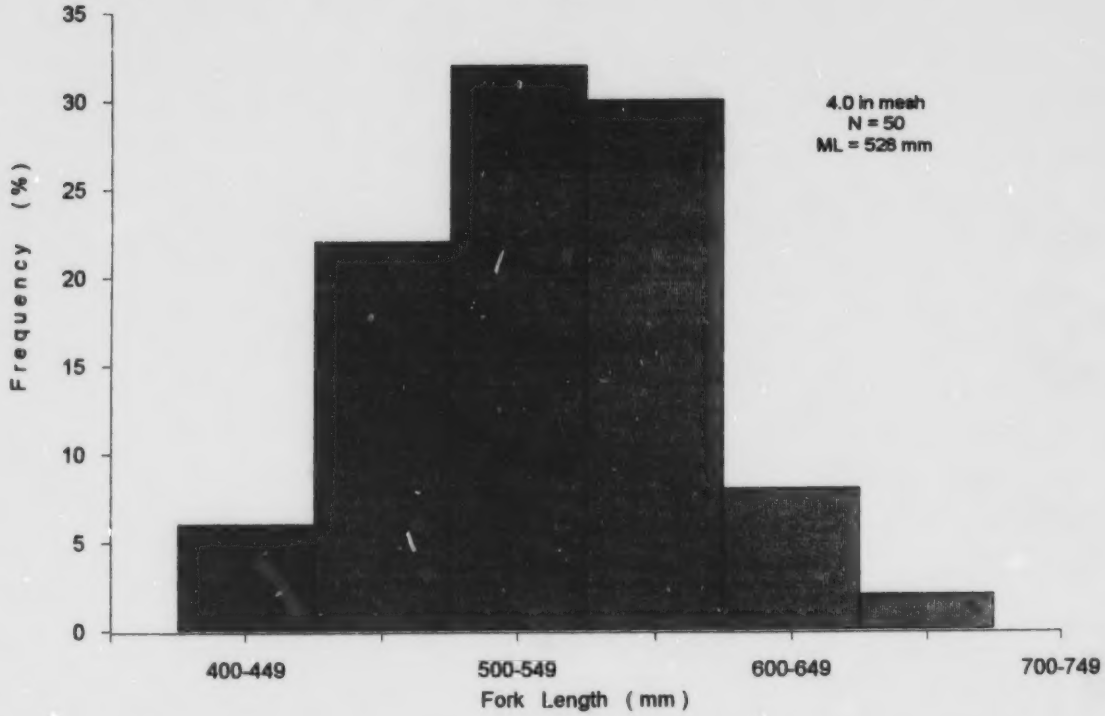


Figure 31. Map of Kimmirut area showing local fishing sites.



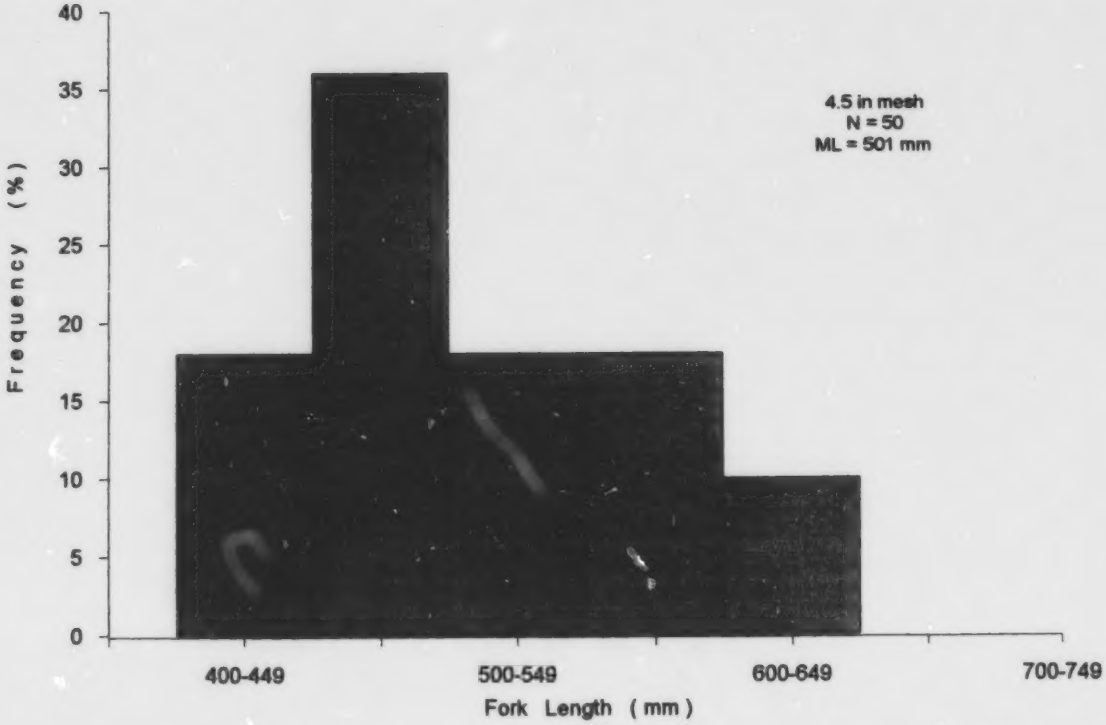
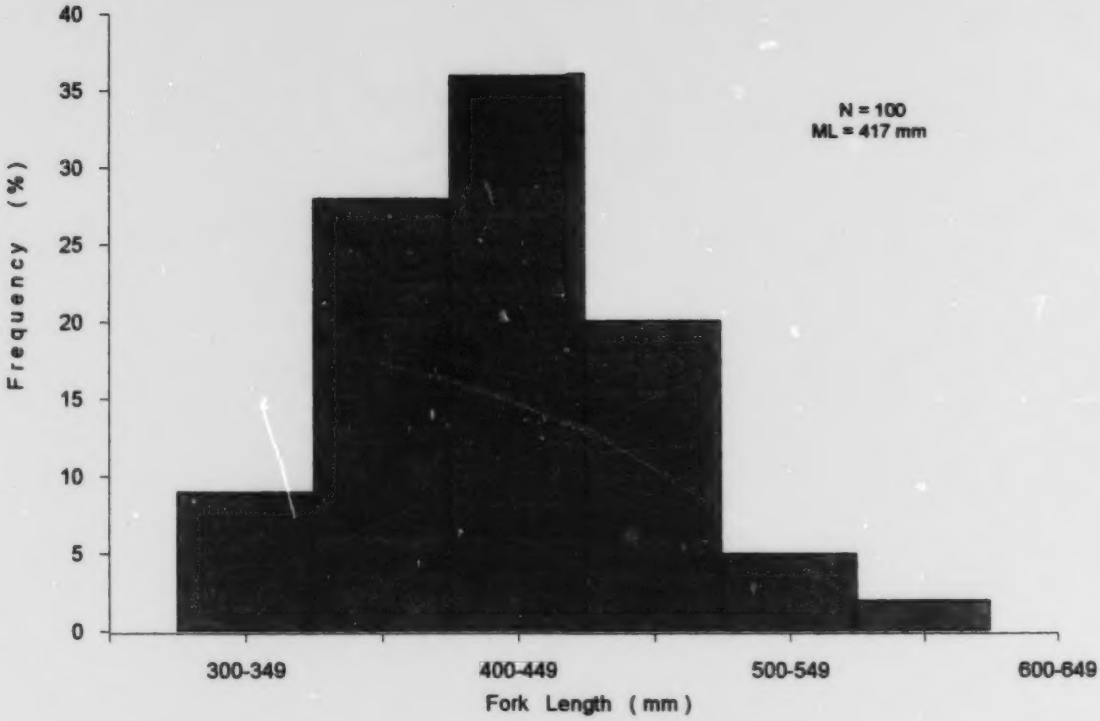


Figure 32. Length-frequency distributions of Arctic charr sampled from 4.0 and 4.5 inch mesh gill nets, Katoga River (Kimmirut), August 1996.



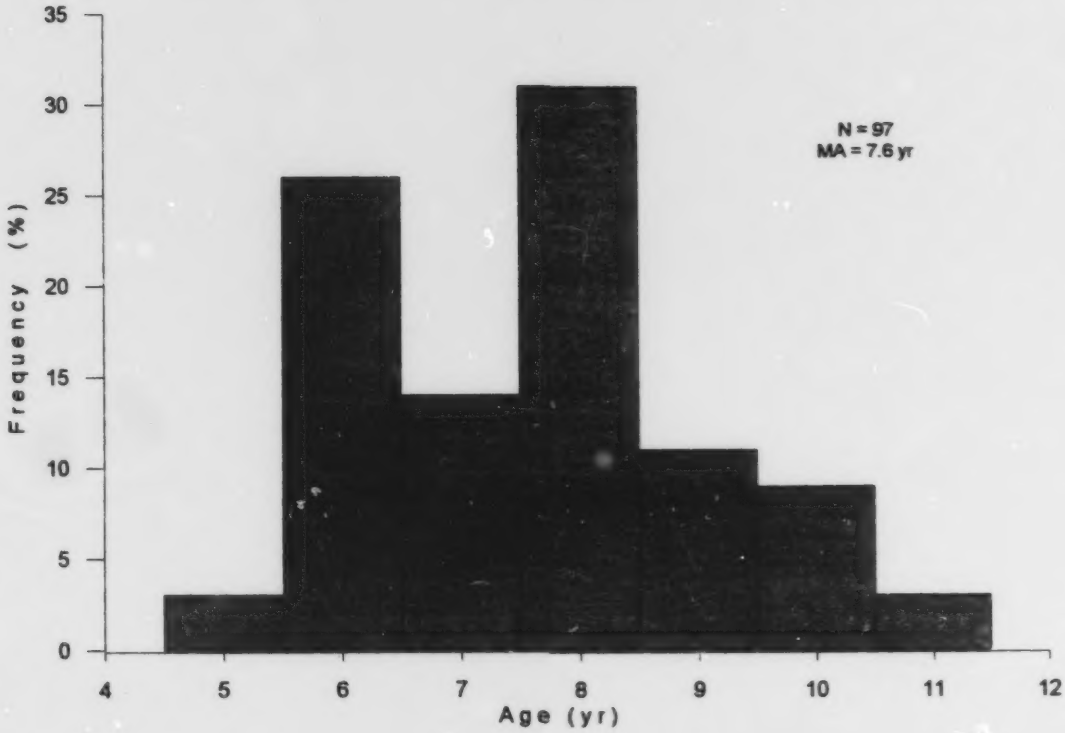
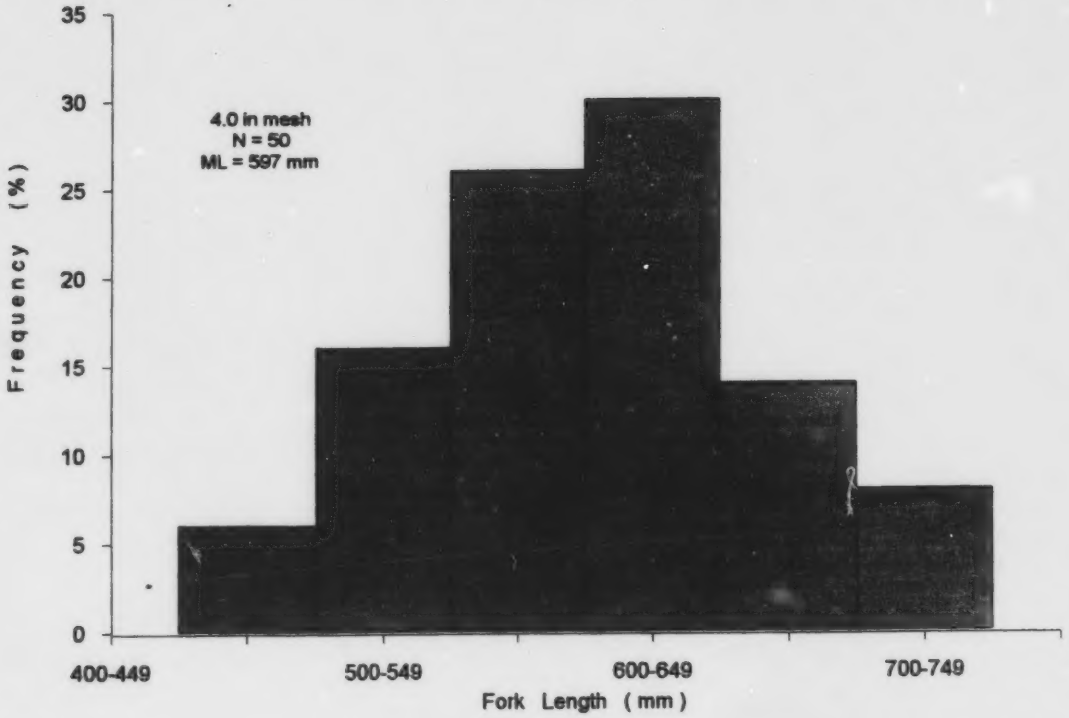


Figure 33. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Iqaluit River (Kimmirut), August 1996.



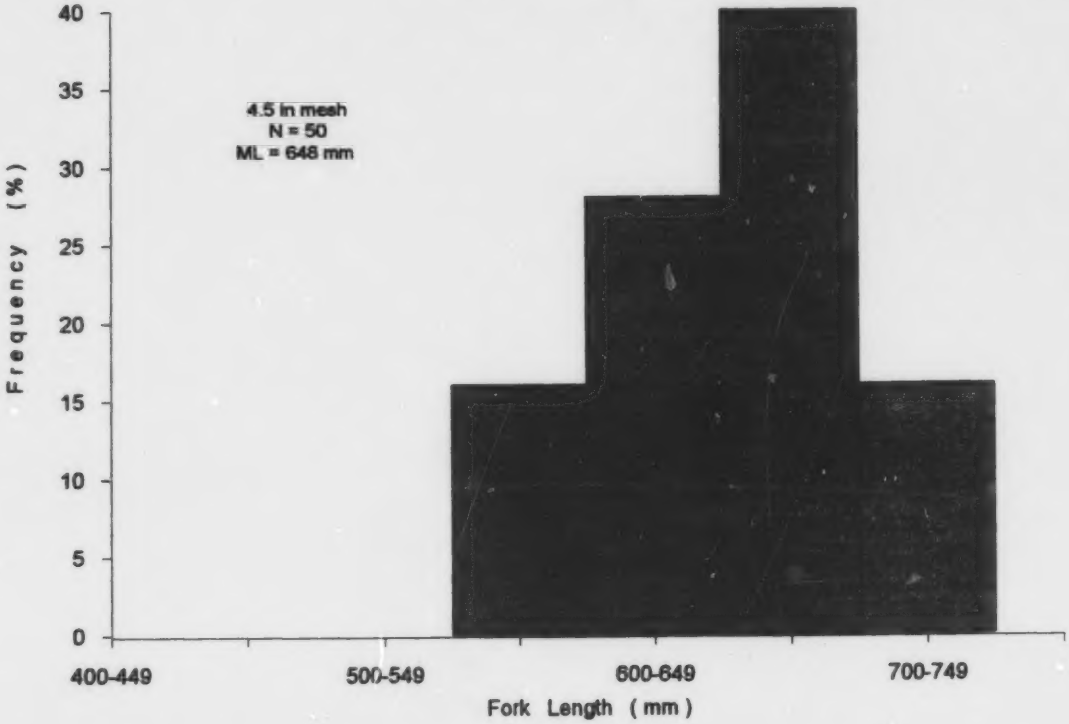
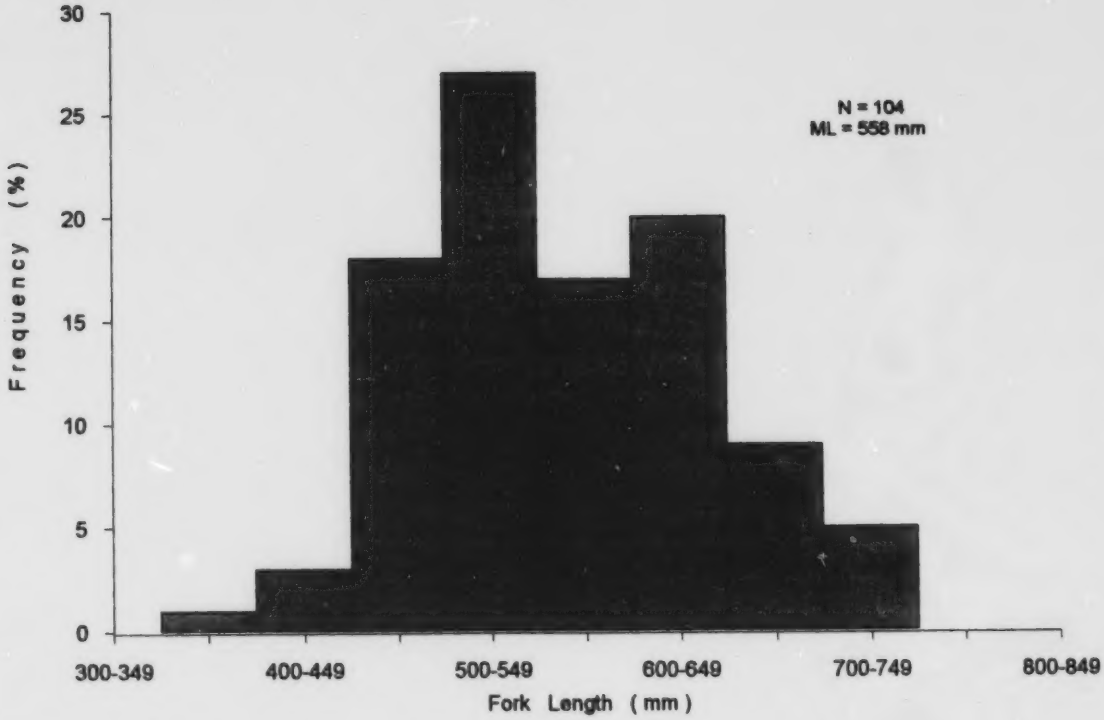


Figure 34. Length-frequency distributions of Arctic charr sampled from 4.0 and 4.5 inch mesh gill nets, Natsiaqtuuq River (Kimmirut), July 1996.



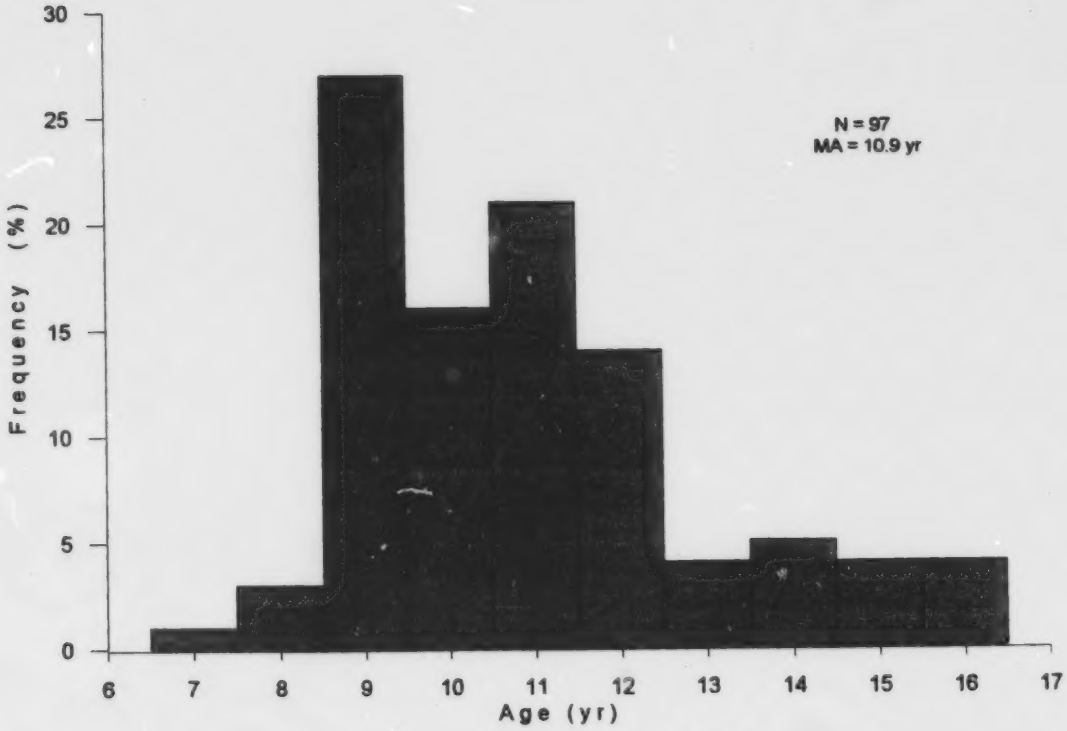


Figure 35. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Quaralik River (Kimmirut), August 1997.

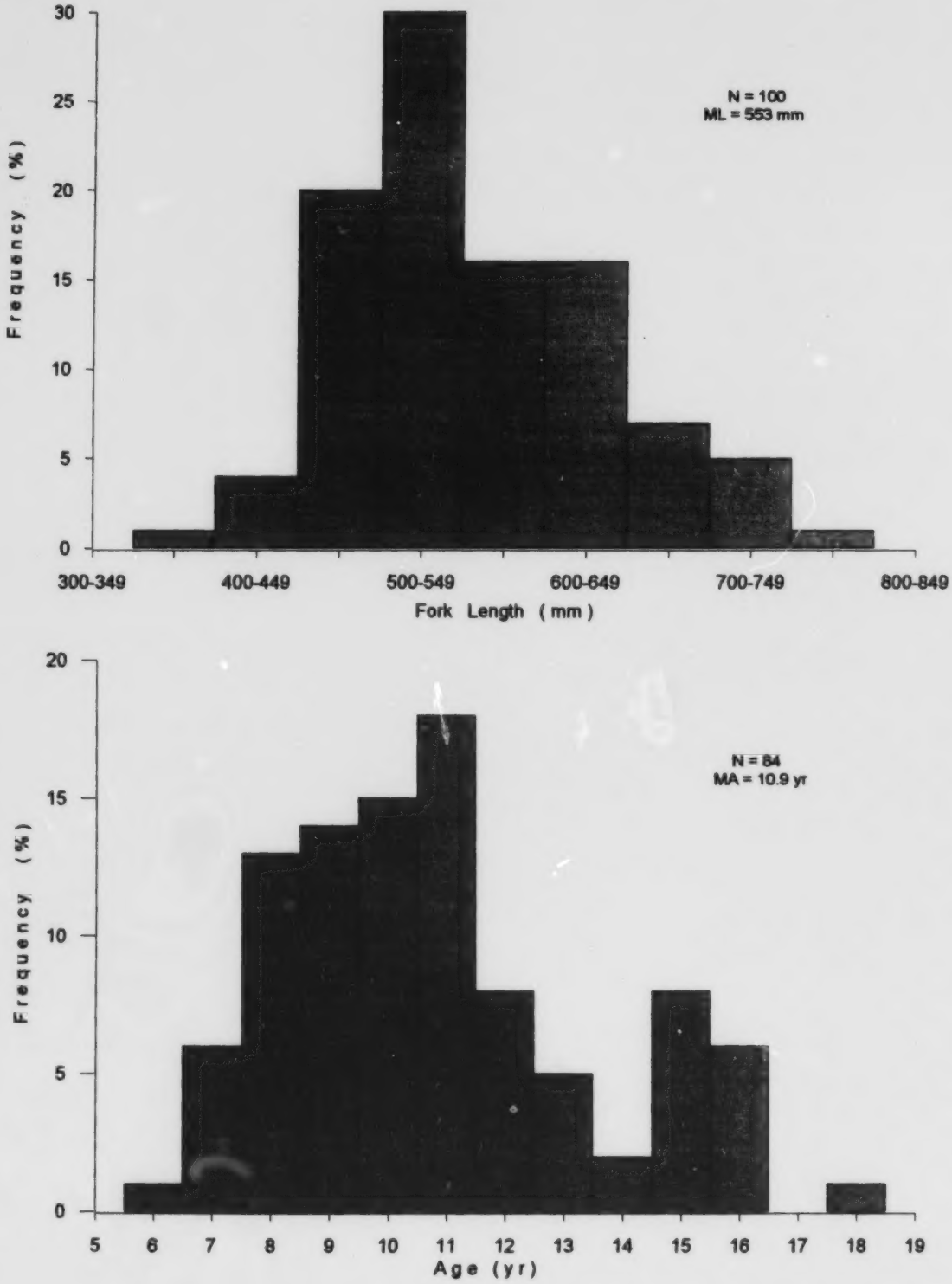


Figure 36. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Qiviaganiq River (Kimmirut), August 1997.

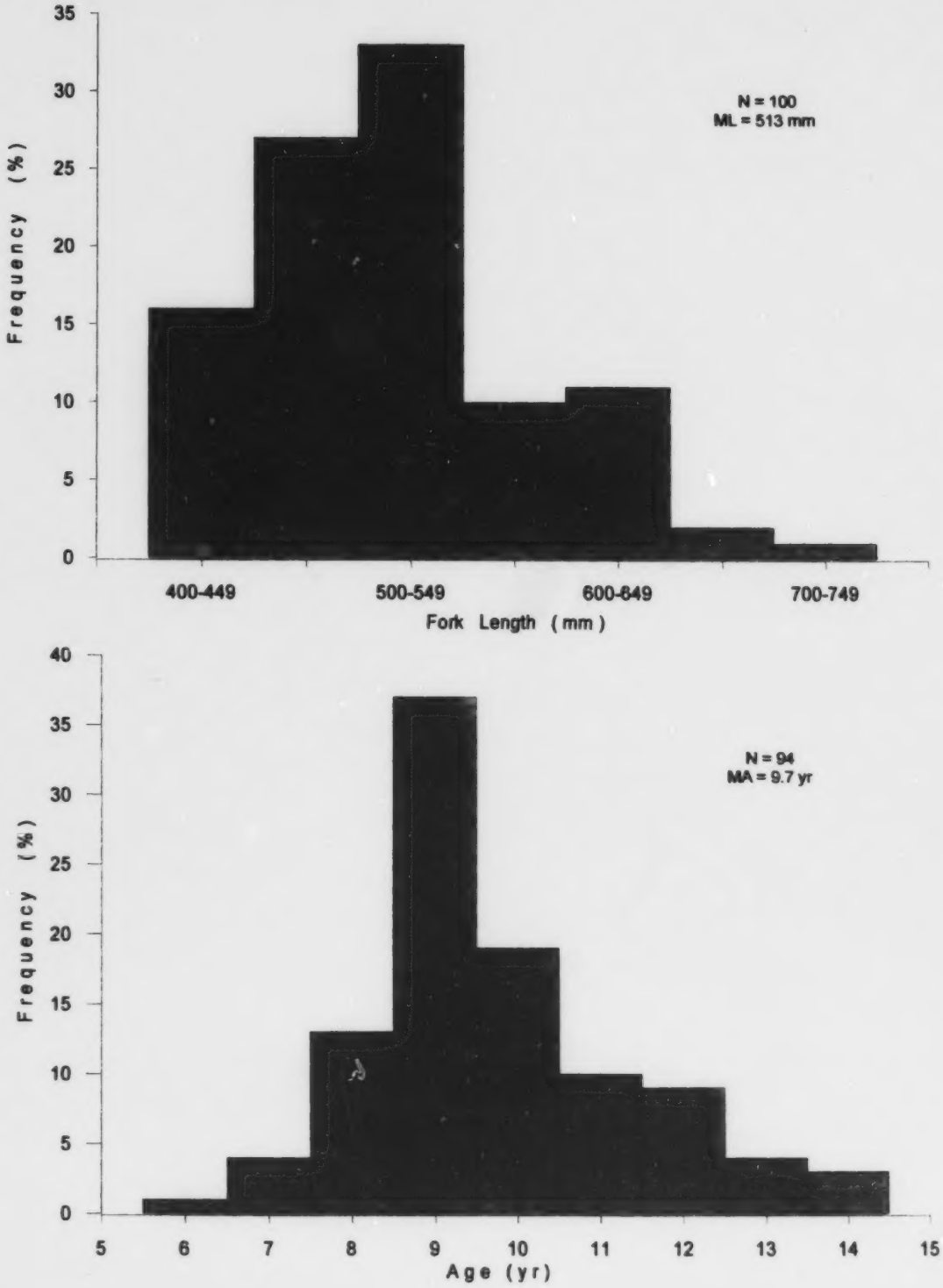


Figure 37. Length and age-frequency distributions of Arctic charr sampled from 4.5 inch mesh gill nets, Qavarusiktuk Lake (Kimmirut), March 1999.

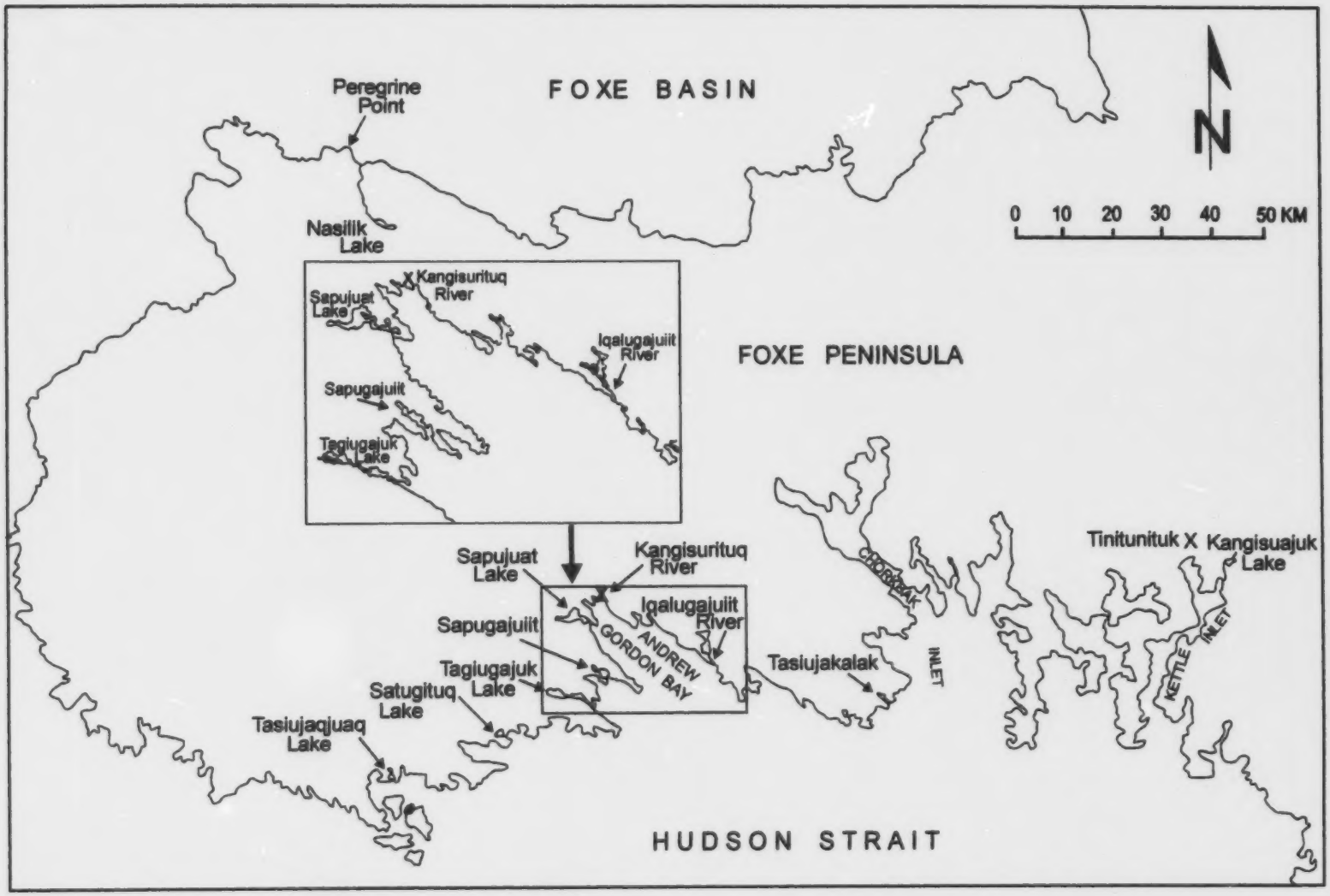
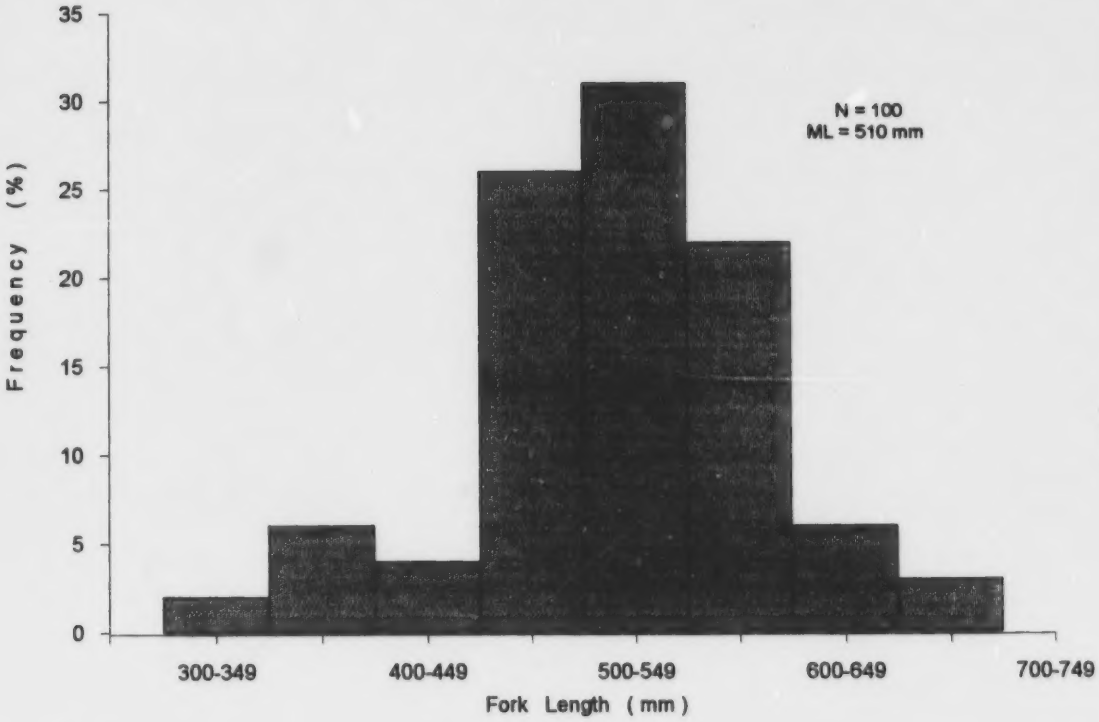


Figure 38. Map of Cape Dorset area showing local fishing sites.



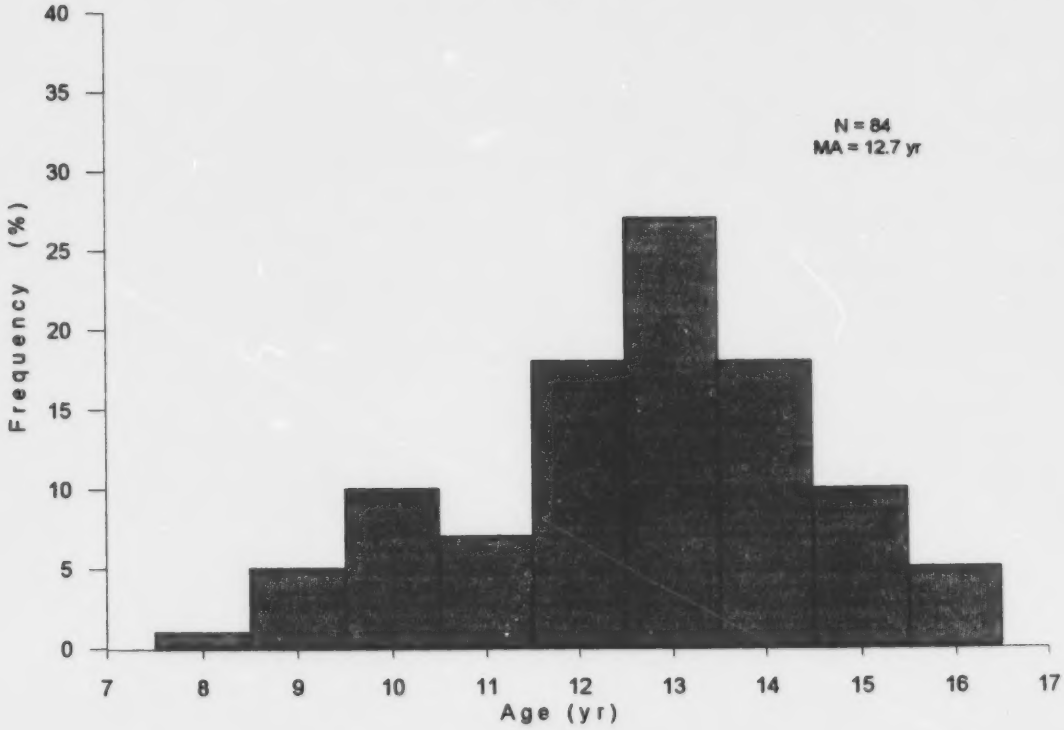
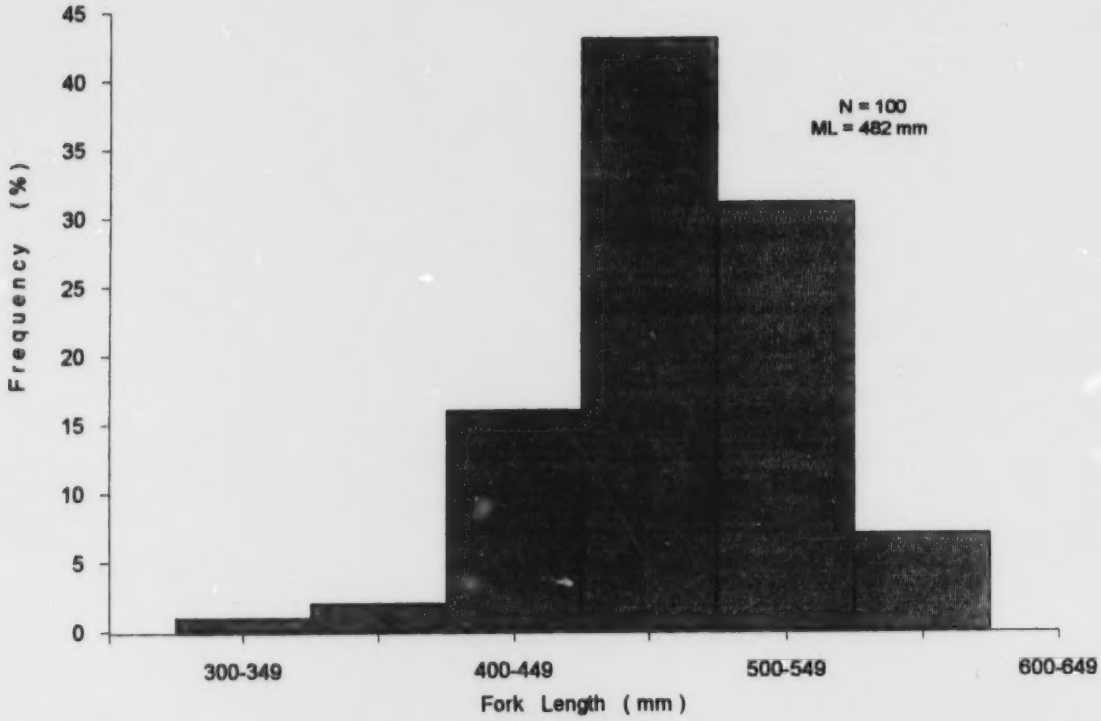


Figure 39. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Iqalugajuiit River (Cape Dorset), July 1996.



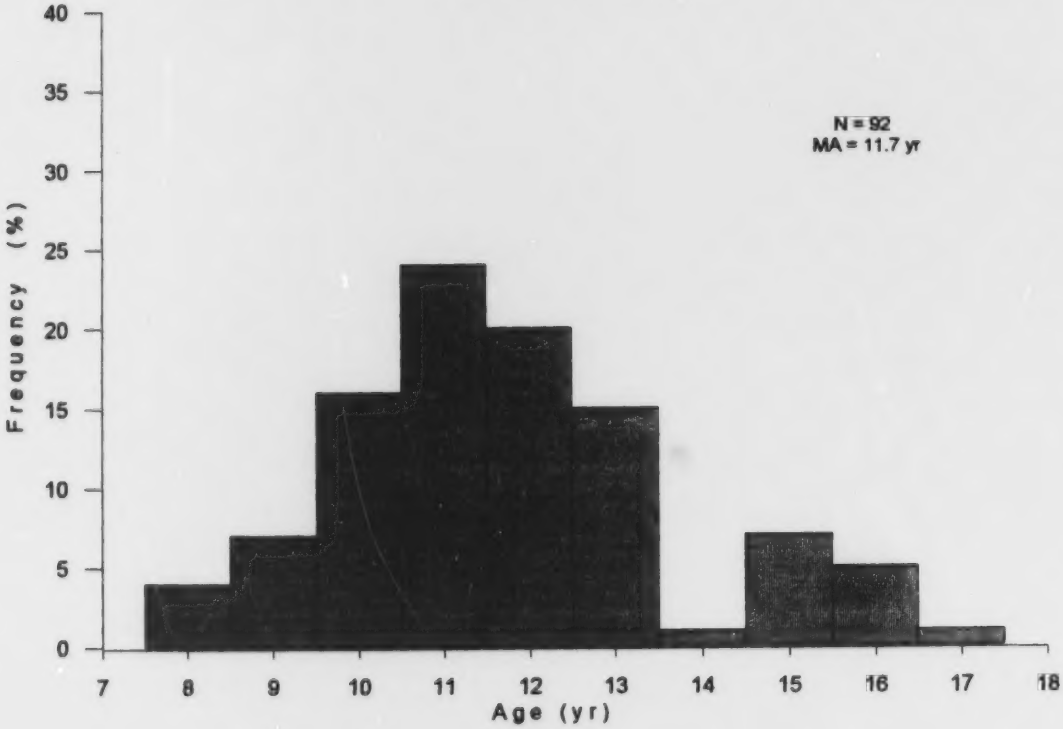


Figure 40. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Tagiugajuk River (Cape Dorset), August 1996.

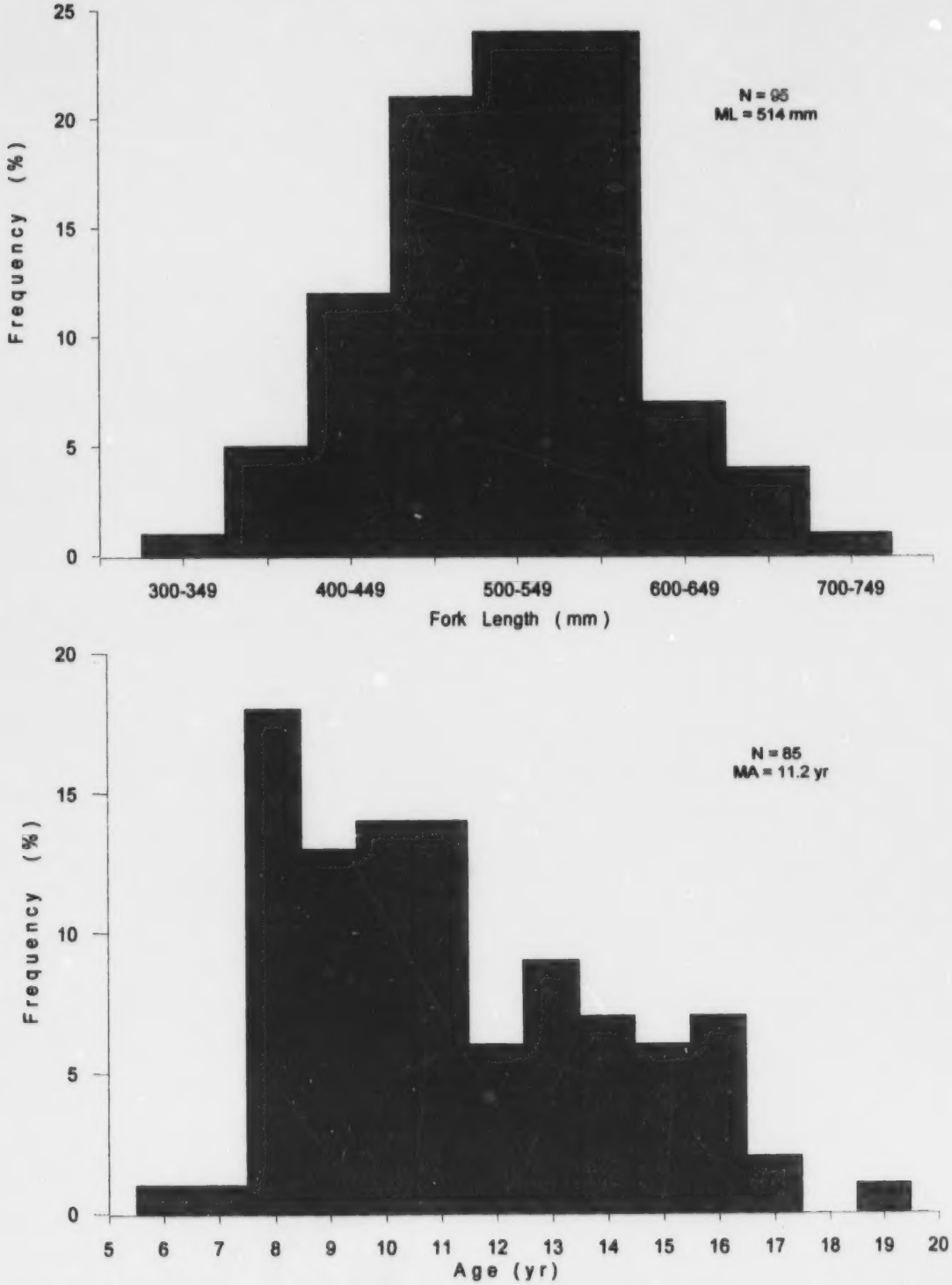


Figure 41. Length and age-frequency distributions of Arctic charr sampled from 4.5 inch mesh gill nets, Sapugajuiit (Cape Dorset), August 1997.

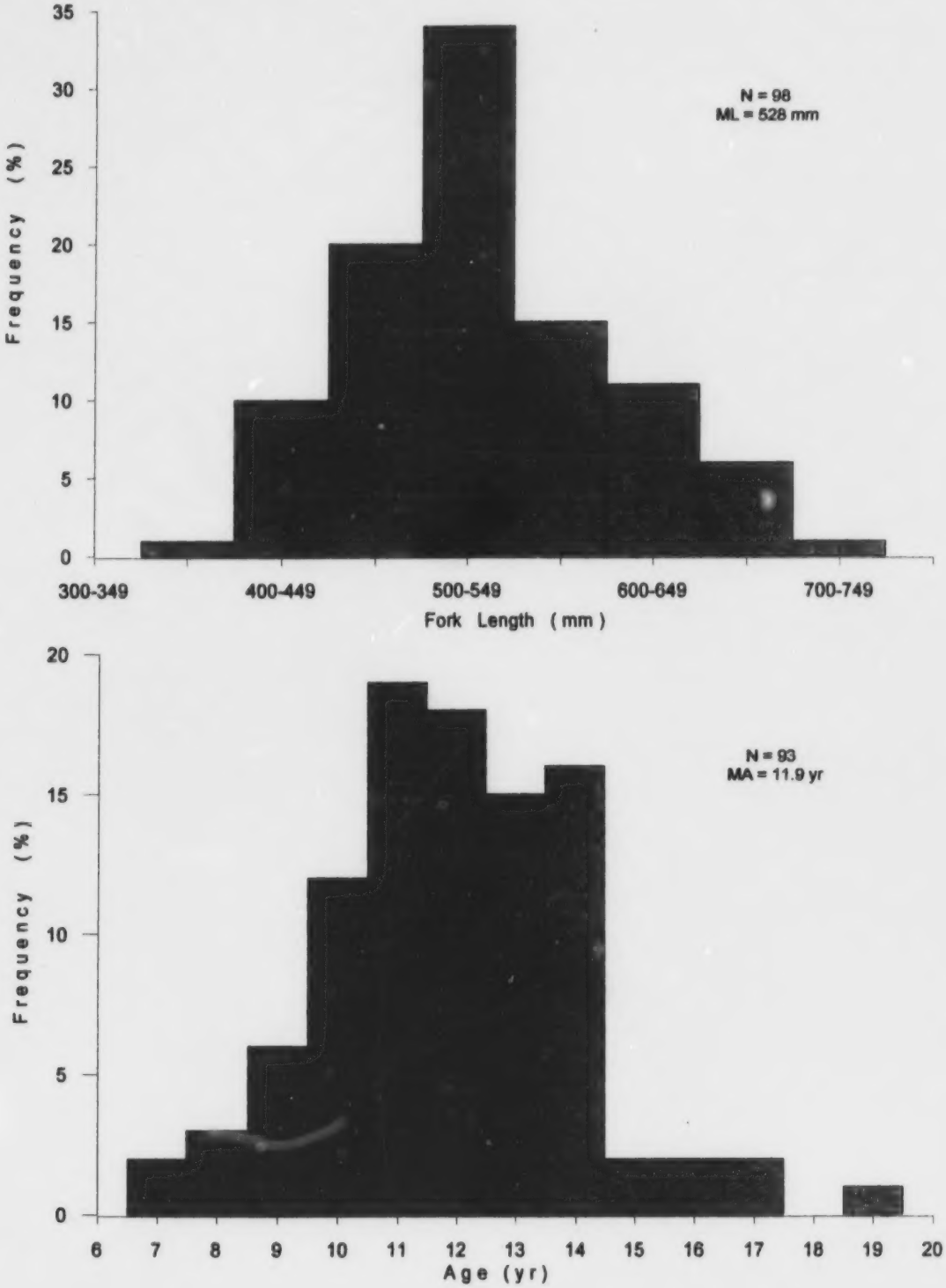
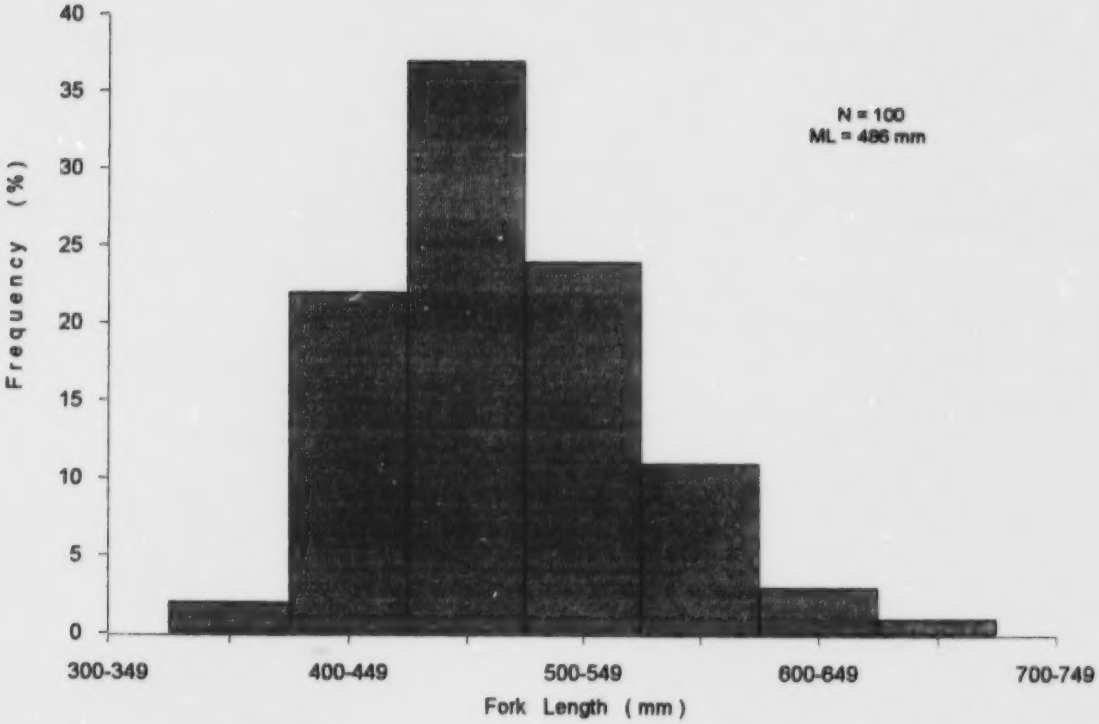


Figure 42. Length and age-frequency distributions of Arctic charr sampled from 4.0 and 4.5 inch mesh gill nets, Oviluqtuuq River (Cape Dorset), August 1997.



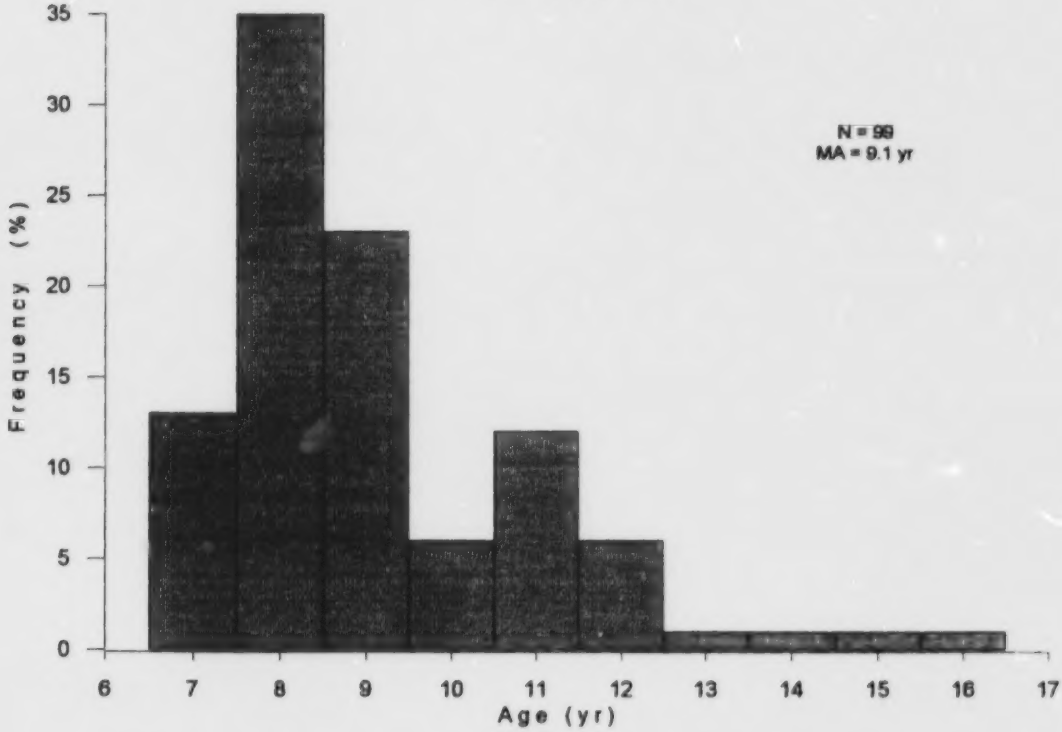


Figure 43. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Sapujuat River (Cape Dorset), September 1997.

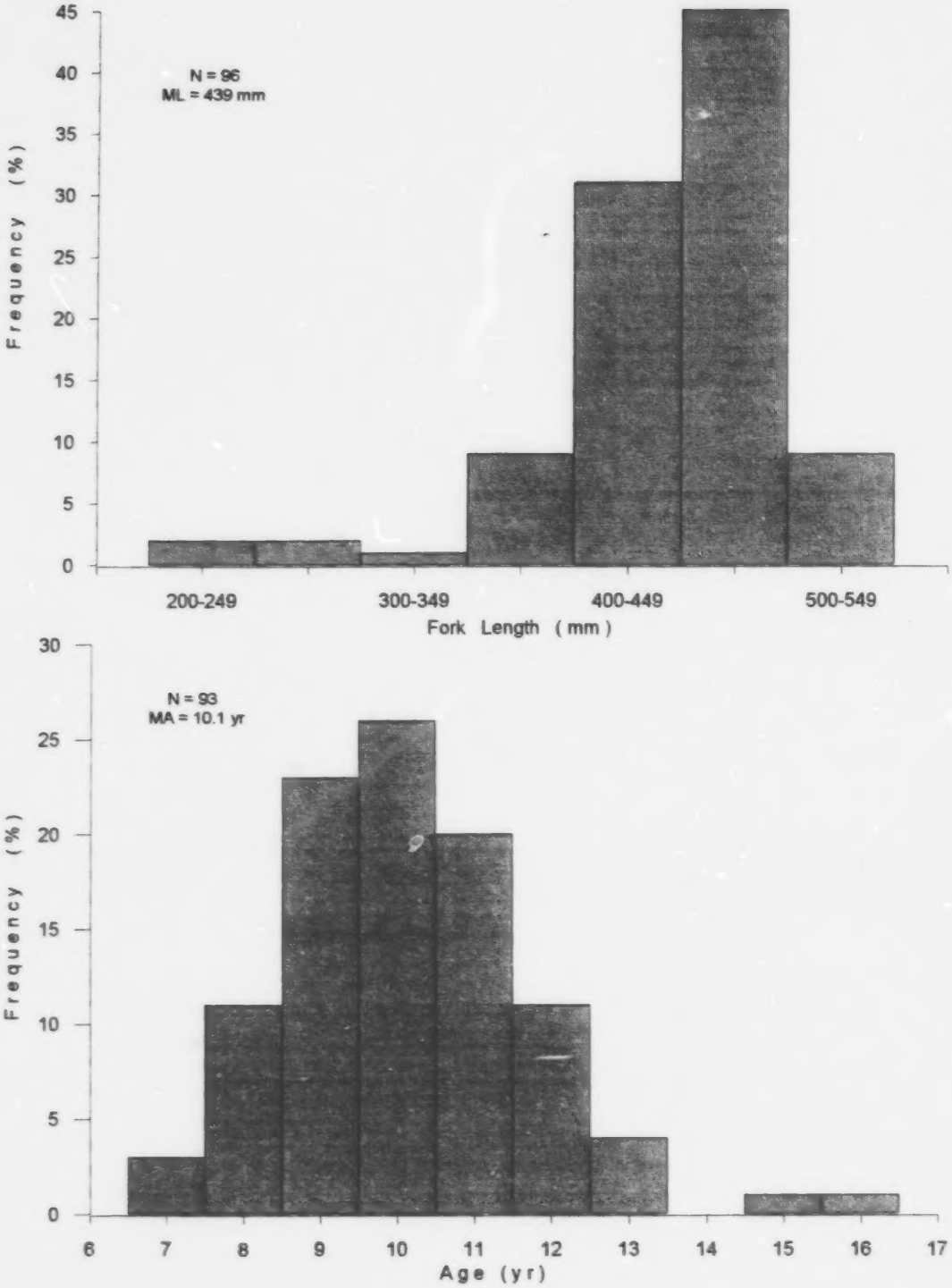


Figure 44. Length and age-frequency distributions of Arctic charr sampled from 4.5 inch mesh gill nets, Tasiujaqjuaq Lake (Cape Dorset), October 1997.

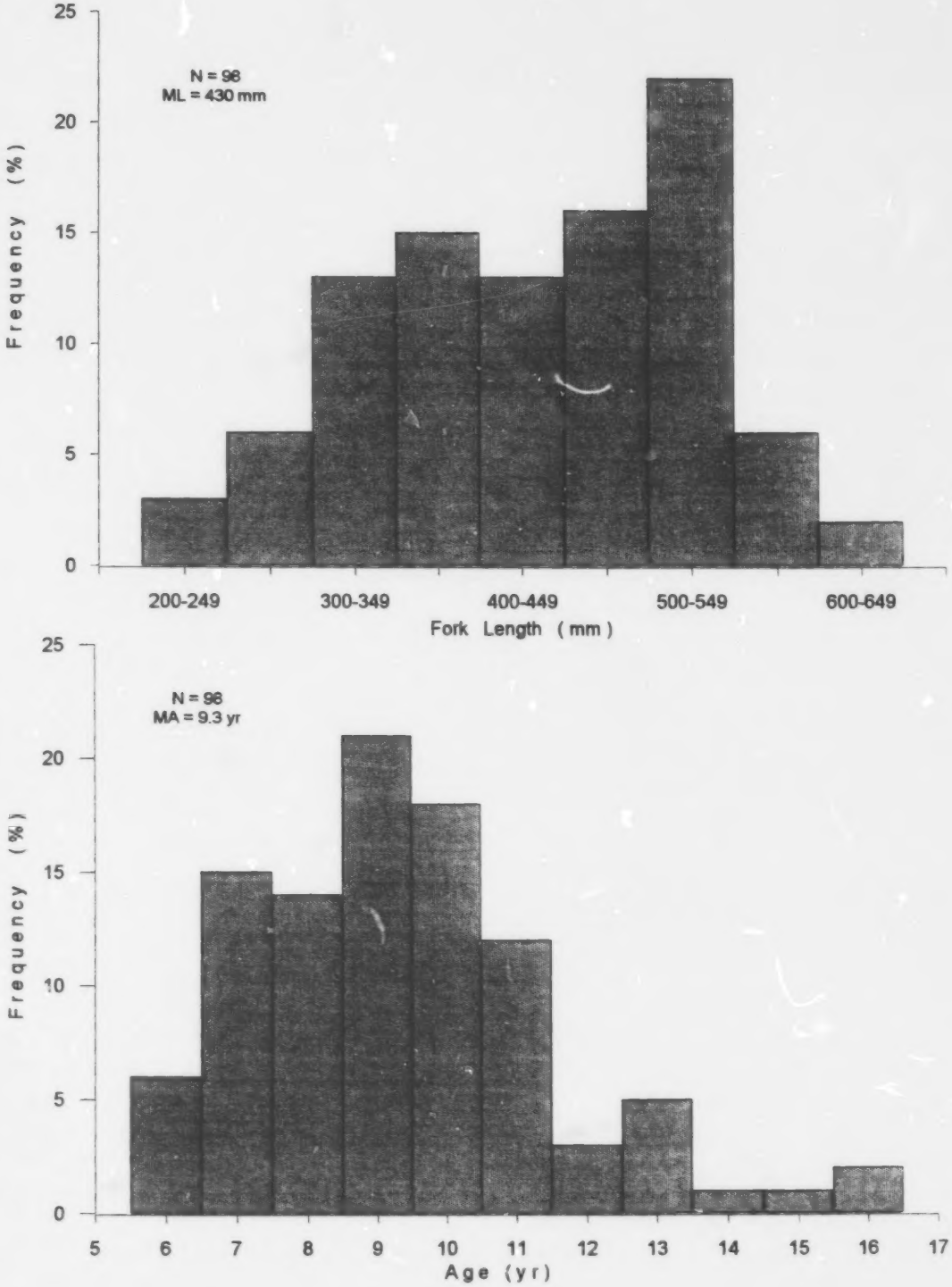


Figure 45. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Tasiujakalak (Cape Dorset), July 1998.

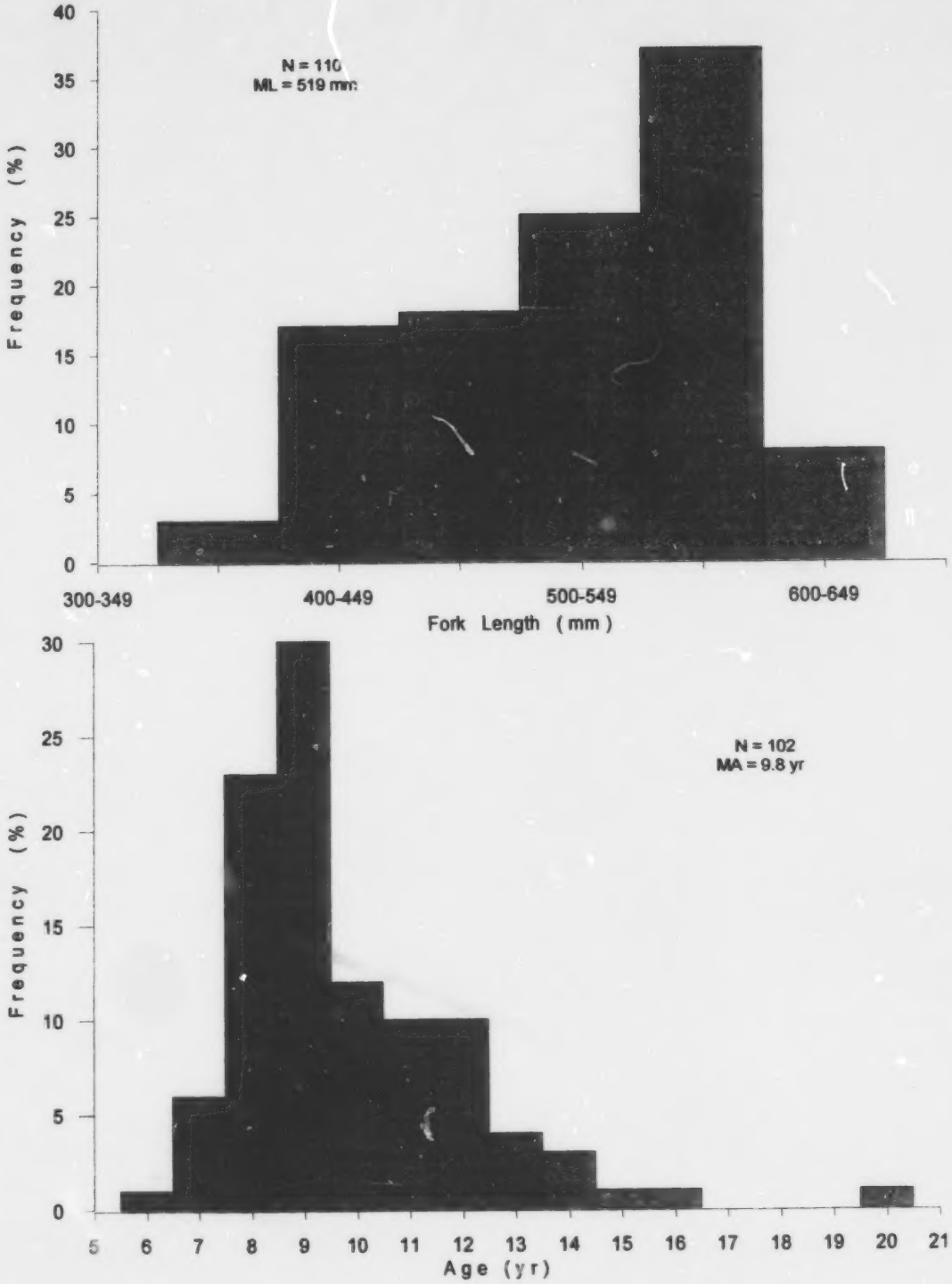


Figure 46. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Kangisurtuq River (Cape Dorset) July 1998.

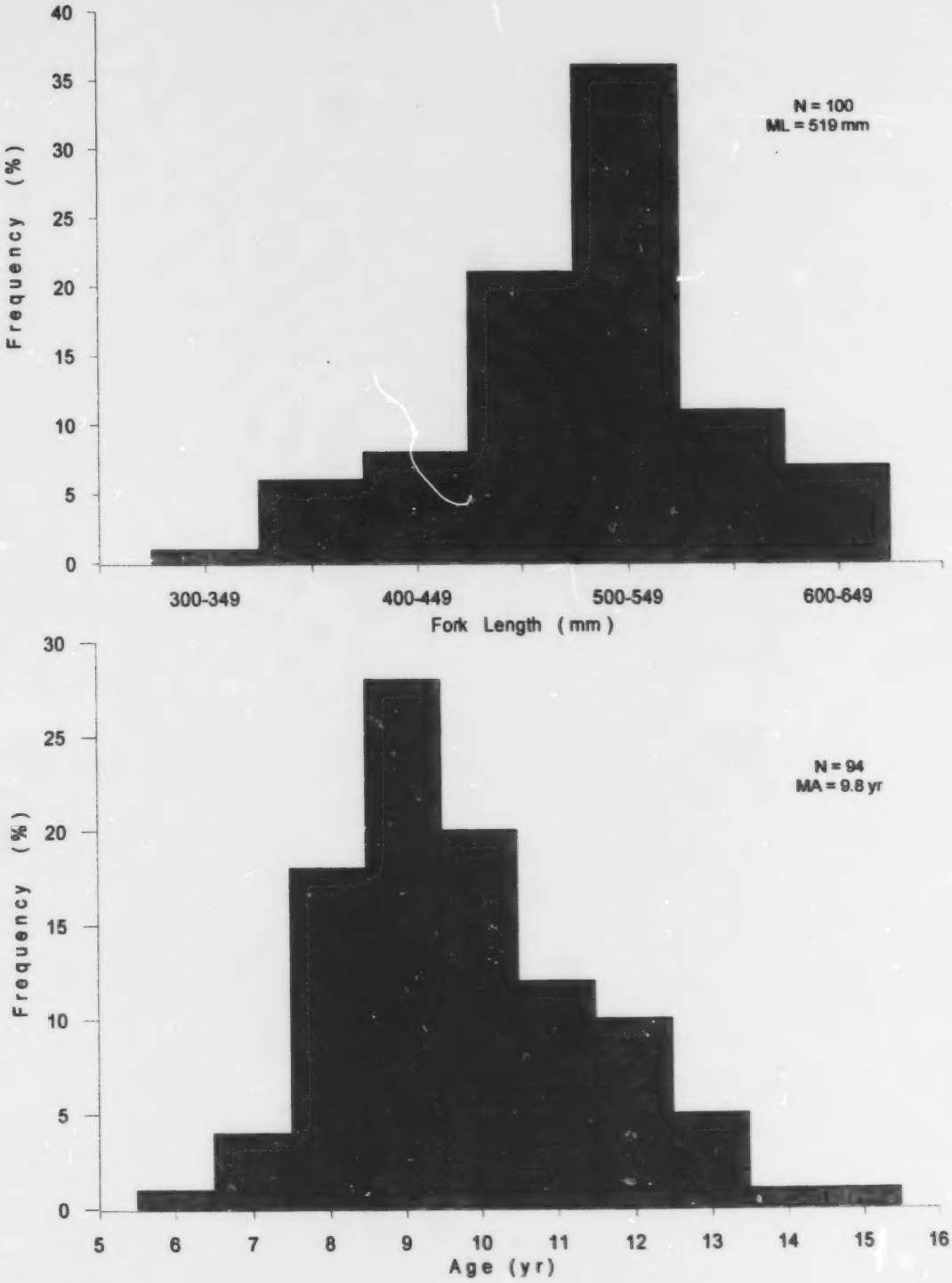


Figure 47. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Kangisuajuk River (Cape Dorset), September 1998.

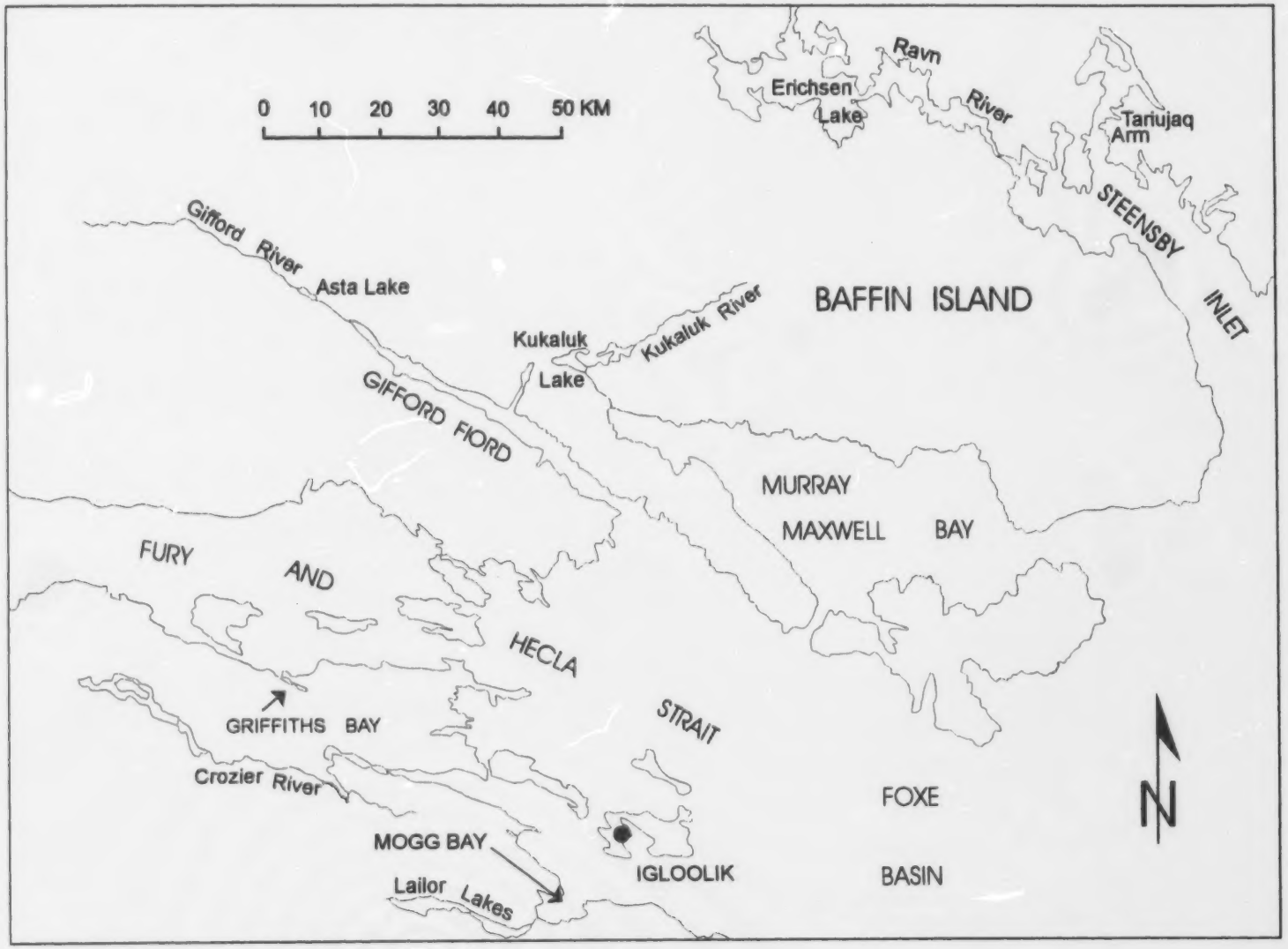
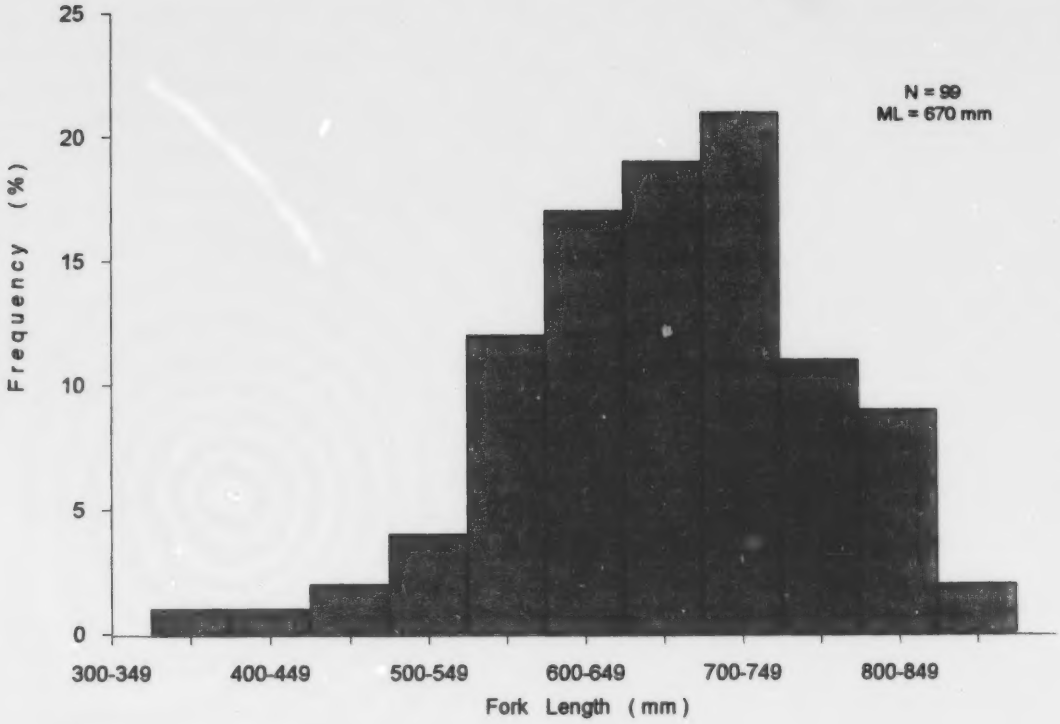


Figure 48. Map of Igloolik area showing local fishing sites.



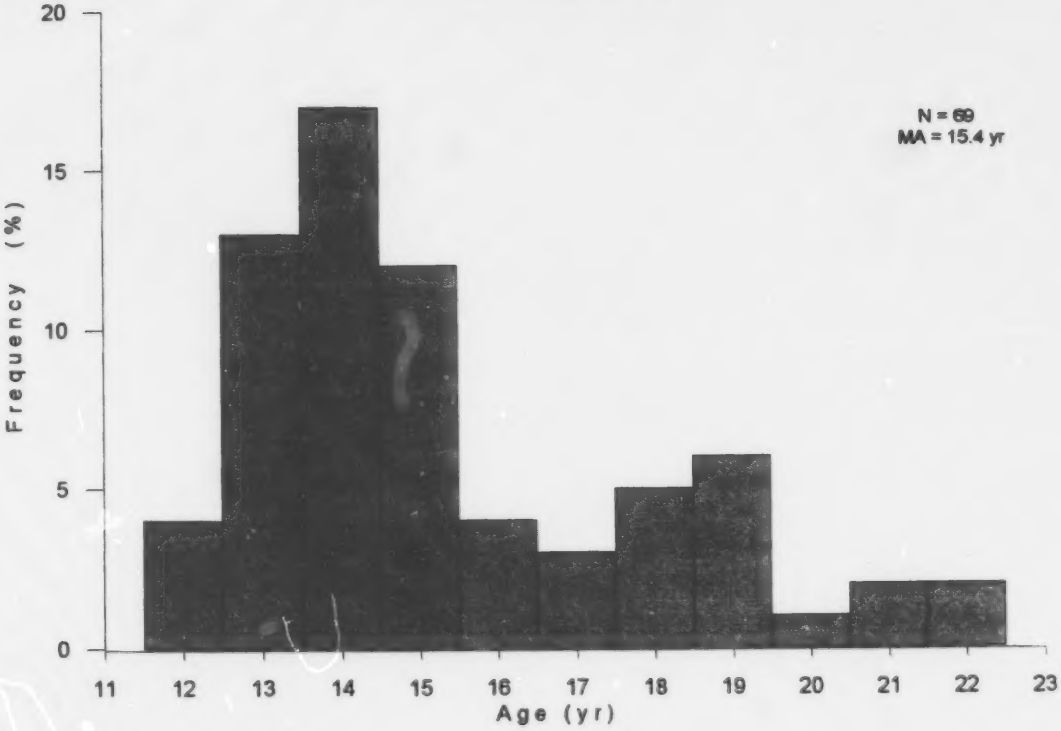


Figure 49. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Kakuluk Lake (Igloolik), March 1996.

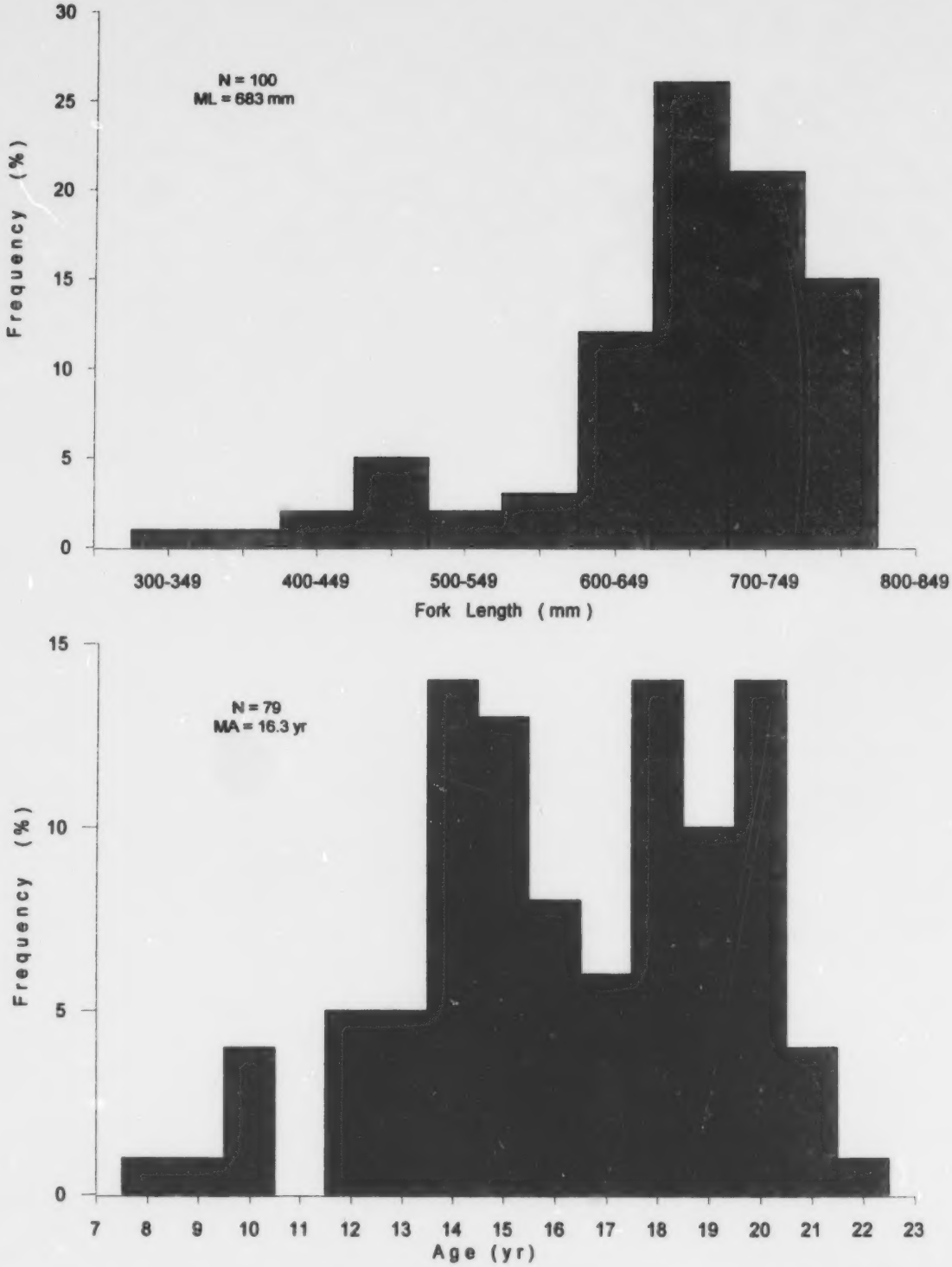


Figure 50. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Asta Lake (Igloolik), February 1997.

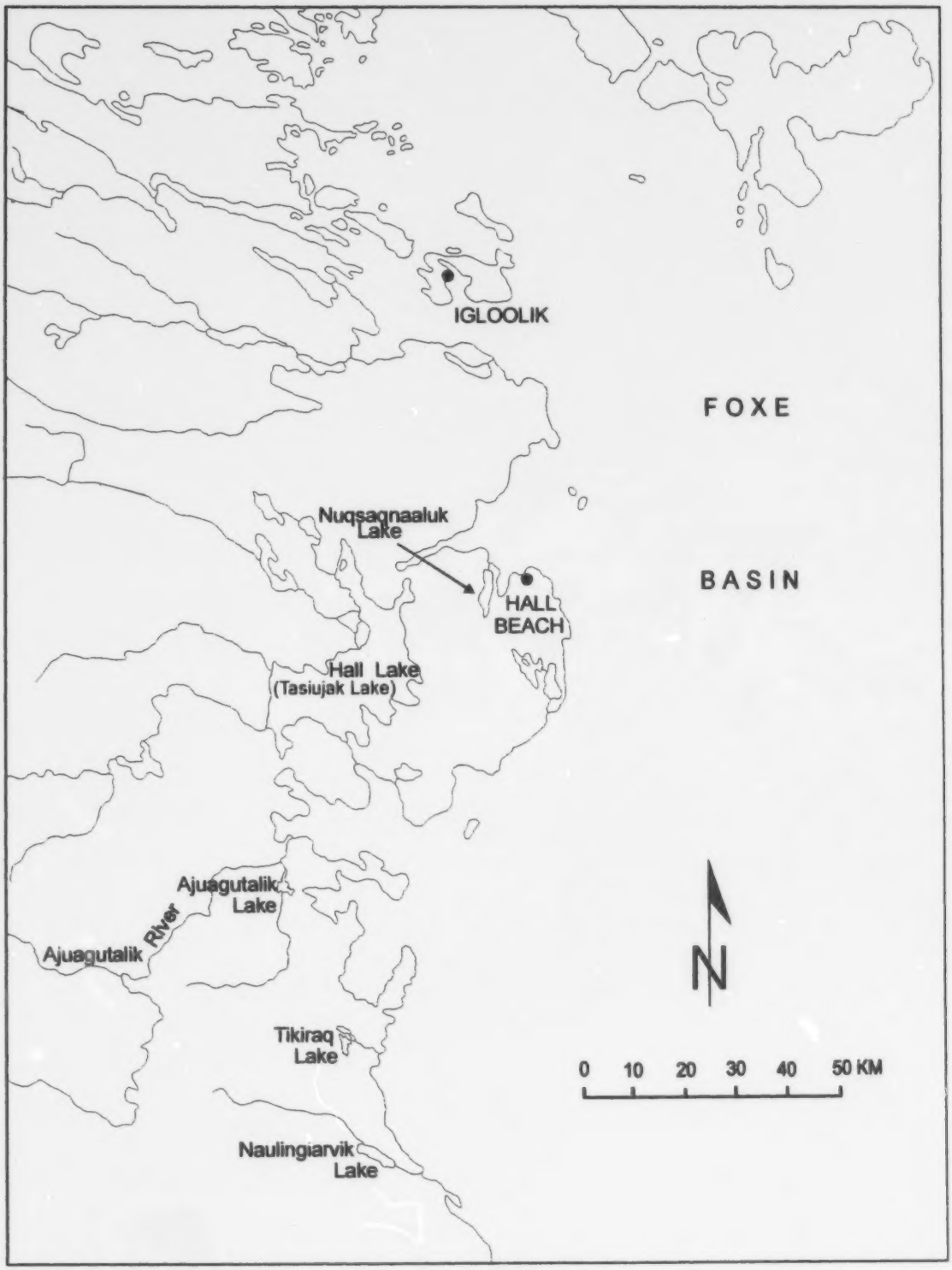


Figure 51. Map of Hall Beach area showing local fishing sites.

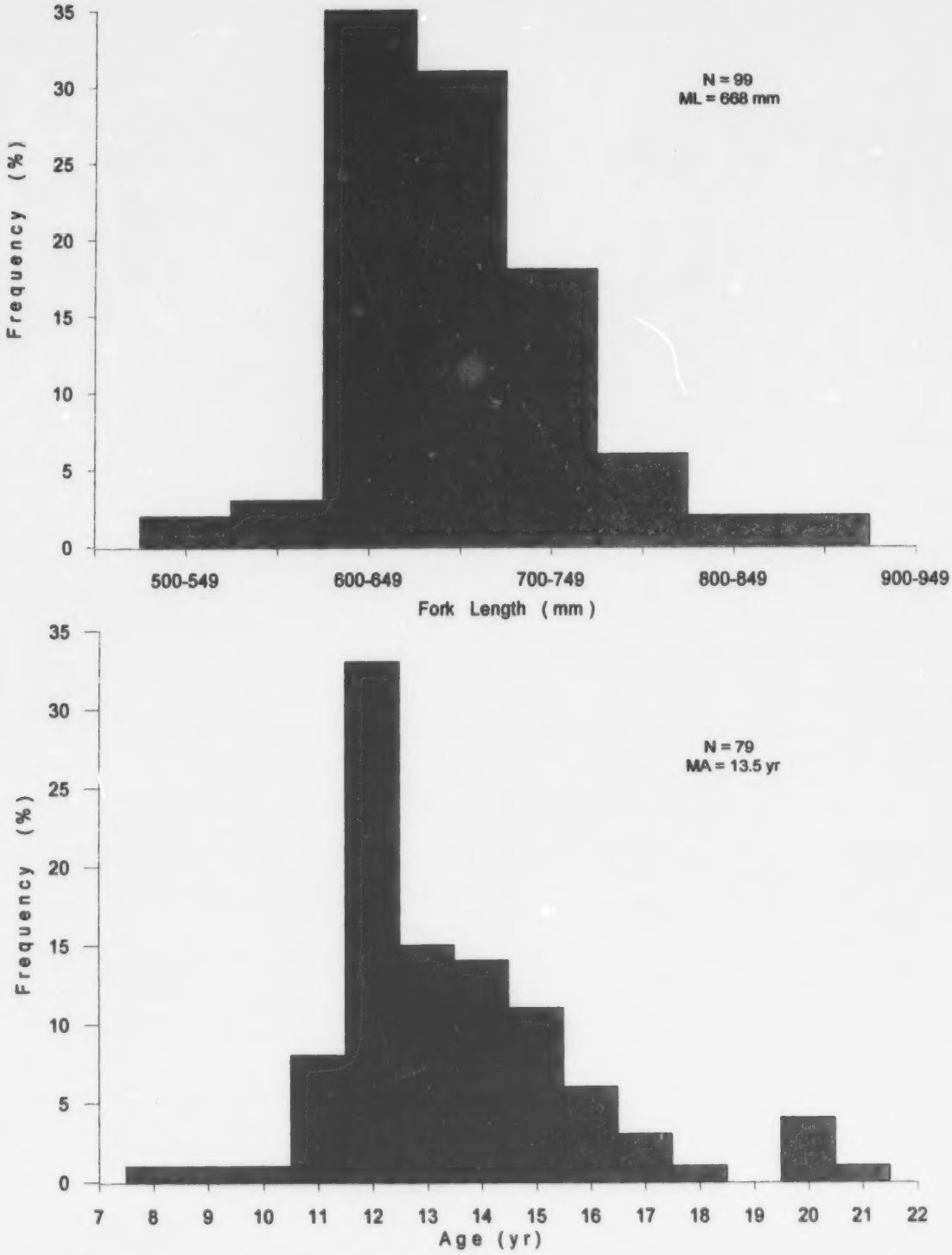


Figure 52. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Tikiraq River (Hall Beach), August 1997.

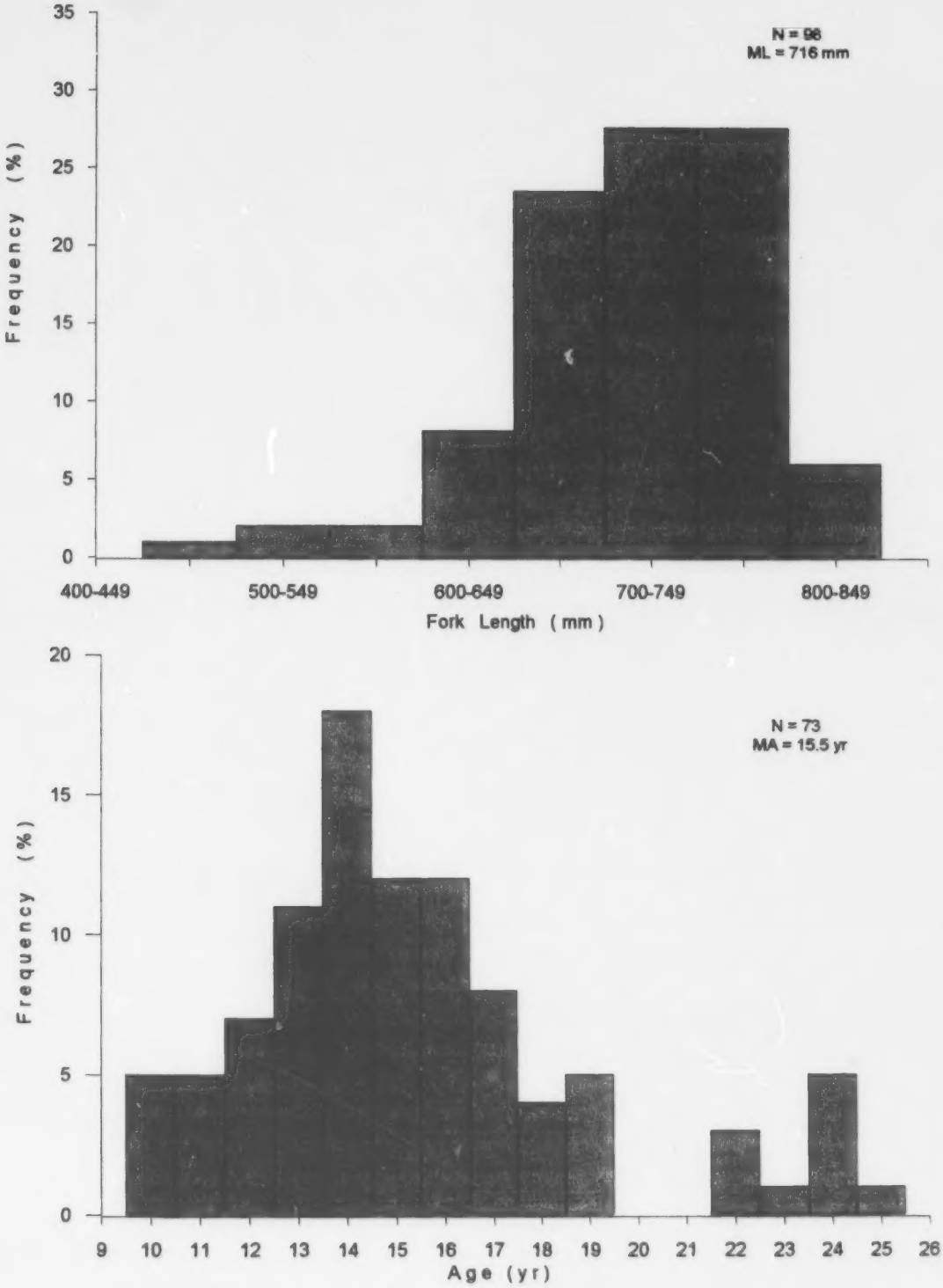


Figure 53. Length and age-frequency distributions of Arctic charr sampled from 5.5 inch mesh gill nets, Naulingiavik River (Hall Beach), August 1998.

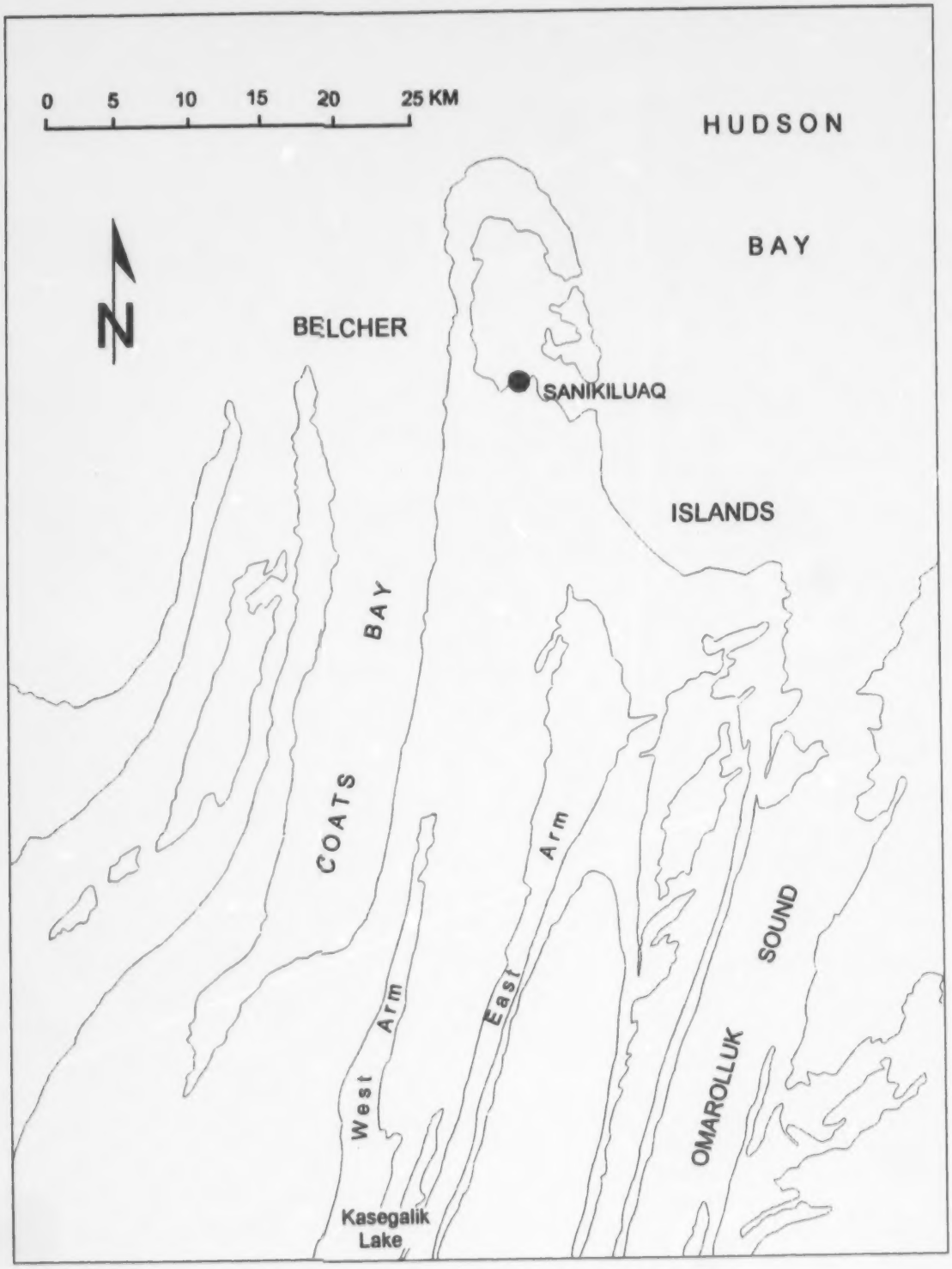


Figure 54. Map of Sanikiluaq area showing local fishing sites.

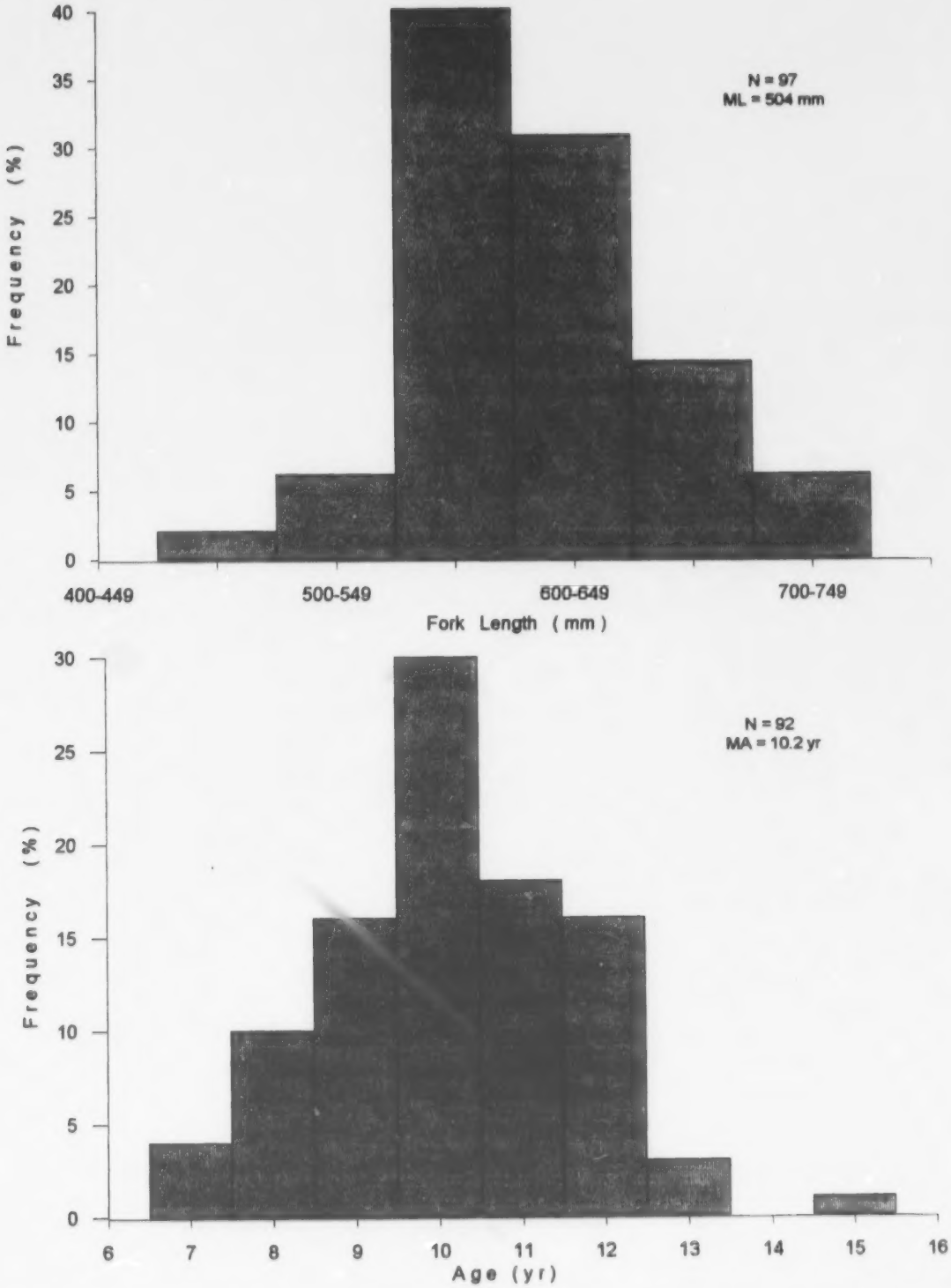


Figure 55. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Kasegalik Lake (West Arm) (Sanikiluaq), June 1997.

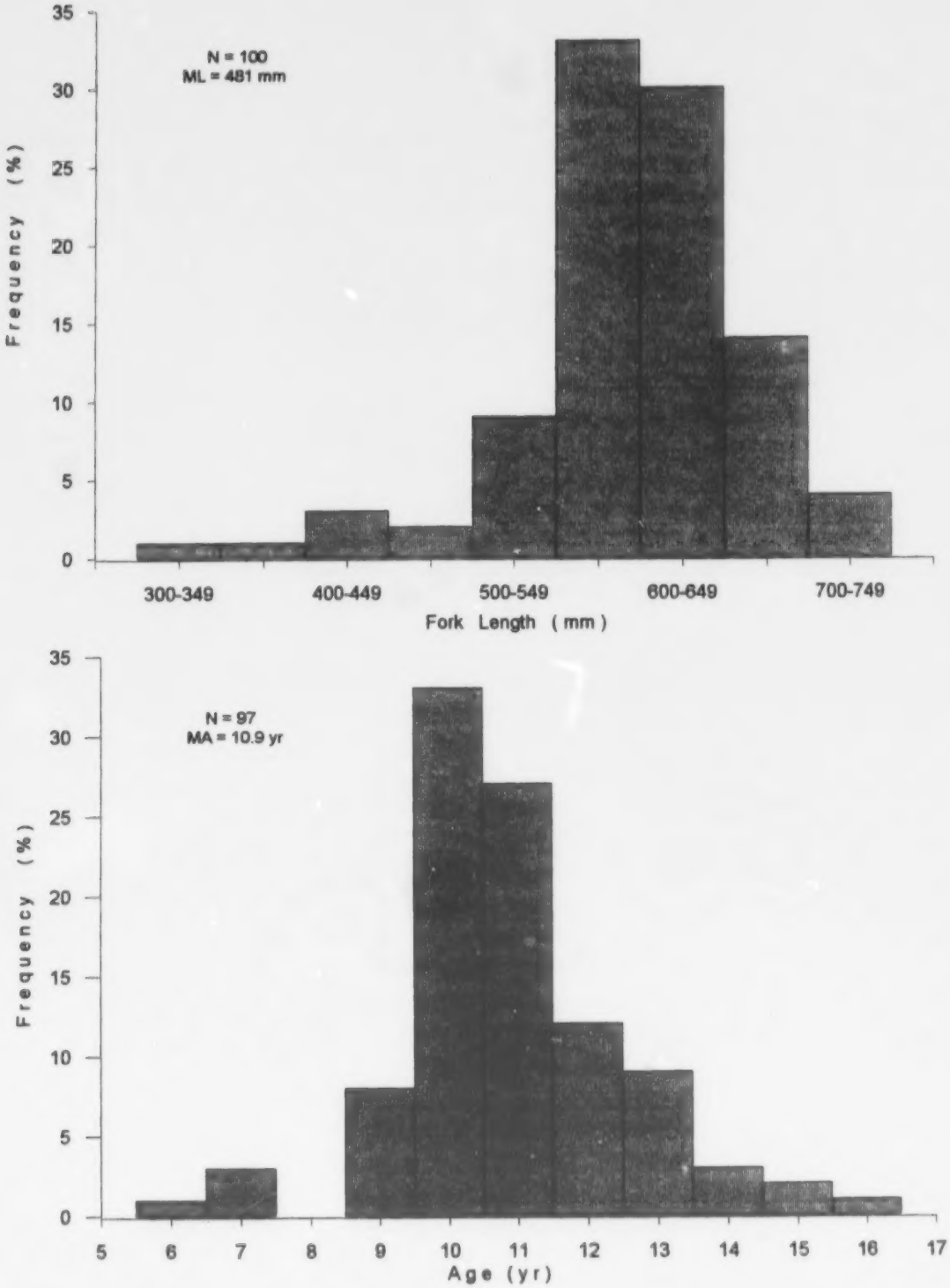
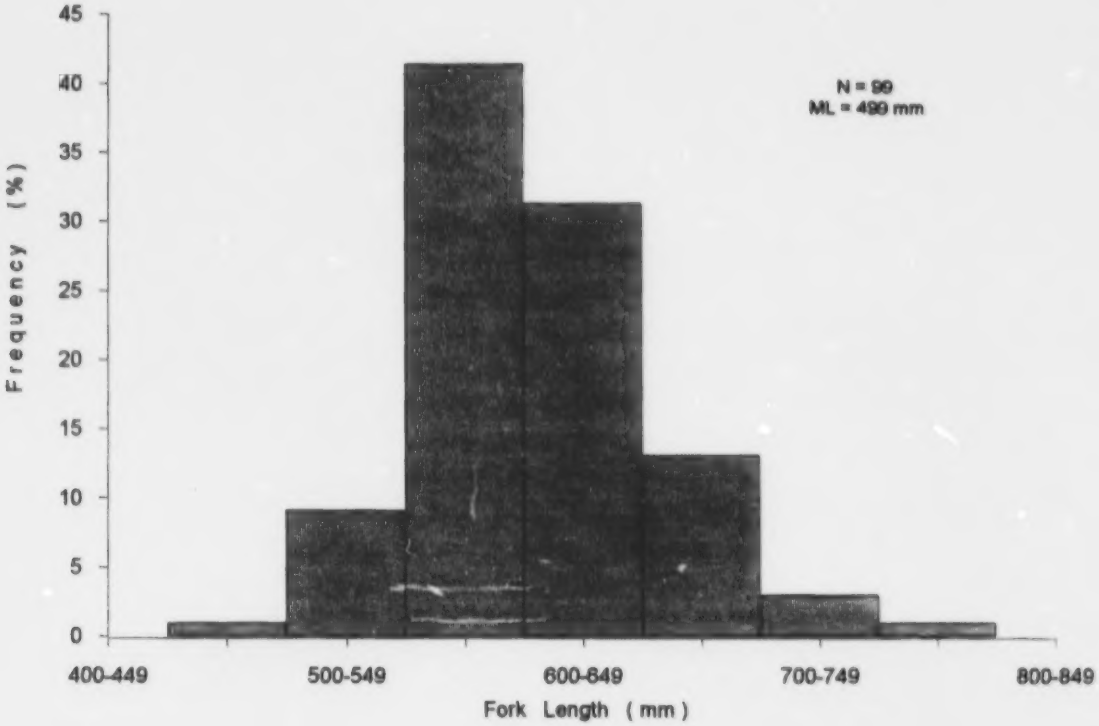


Figure 56. Length and age-frequency distributions of Arctic charr sampled from 4.0 inch mesh gill nets, Kasegalik Lake (West Arm) (Sanikiluaq), June 1998.



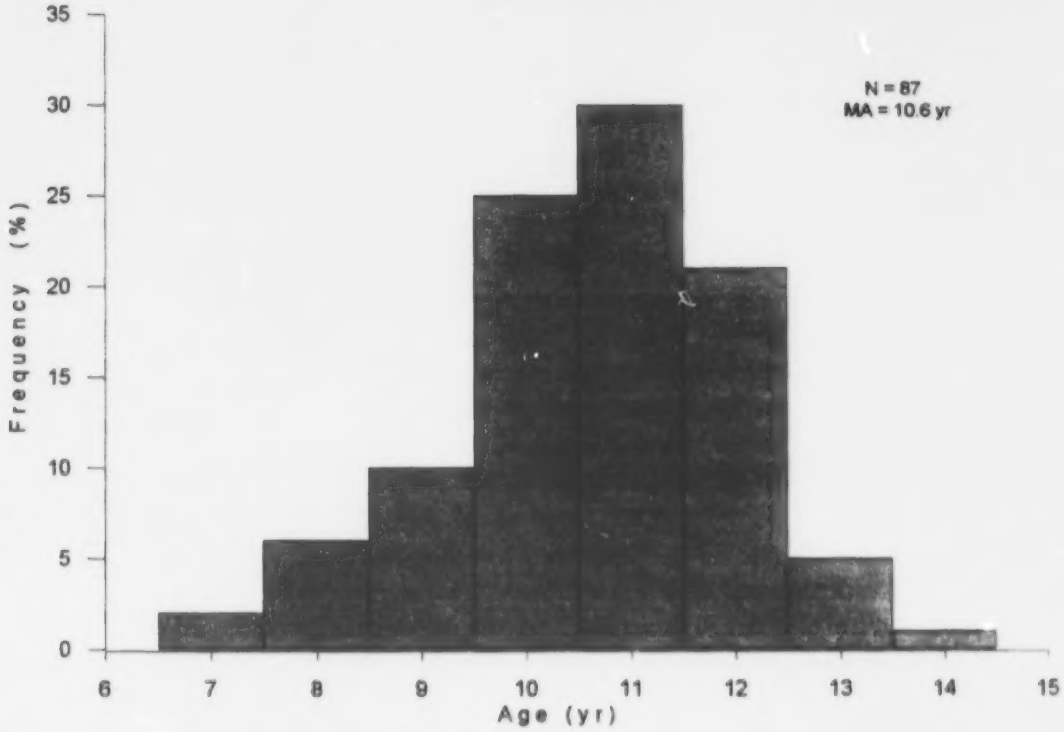


Figure 57. Length and age-frequency distributions of Arctic charr sampled from 3.5 inch mesh gill nets, Kasegalik Lake (East Arm) (Sanikiluaq), June 1998.

Table 1. Information collected by each community by year and fishing site.

Community	Year	Local Know-Ledge	Fishing Site	Biological Samples	Catch Effort Data	Water Sample
Arctic Bay	1995\96	Yes	Ipikittuarjuk Lake	100	Yes	No
	1997\98		Qakkiaq Lake	90 #	No	No
Pond Inlet	1995\96	Yes	Ikaluit Lake	100	Yes	No
			Tugaat Lake	100	Yes	No
	1996\97	Yes	Ikaluit Lake	99	No	No
			Coutts Inlet Lake	98	Yes	No
			Tuniit Lake	100	Yes	No
	1997\98	No	Ikaluit Lake	104	Yes	No
			Tuniit Lake	99	Yes	Yes
			Coutts Inlet Lake	50	No	No
Clyde River	1995\96	Yes	Kuuktannuq River	100	Yes	No
	1996\97	Yes	Kogatu Lake	101	Yes	No
			Naksaarluk Lake	46 *	Yes	No
	1997\98	No	Naksaarluk Lake	101	Yes	No
	1998/99	No	Sam Ford Fiord	101	Yes	No
			Killautarialik Lake	100	No	Yes
Qikiqtaakjuaq	1995\96	Yes	Natluksiak Lake	100	Yes	No
			Nudluit Lake	100	Yes	No
	1996\97	Yes	Tunusuk Lake	100 *	No	No
			Avaliggut Lake	100 *	No	No
			Kagniliajuk Lake	100 *	No	No
	1998\99	No	Natluksiak Lake	100	Yes	Yes
Pangnirtung	1996\97	Yes	Kingnait Fiord	100	No	No
	1997\98	Yes	Avataktuuk Lake	100	No	Yes
			Iqalujjuat Fiord	100	Yes	No
			Iqalukjuaat	100	Yes	No
			Kipisa River	100	Yes	No

cont'd.

Table 1. Cont'd.

Community	Year	Local Know-Ledge	Fishing Site	Biological Samples	Catch Effort Data	Water Sample
Kimmirut	1995\96	Yes				
	1996\97	Yes	Katoga River	100*	Yes	No
			Iqaluit Lake	100	Yes	No
			Natsiaqtuuq River	100*	Yes	No
	1997\98	No	Quaralik River	104	Yes	Yes
			Qiviaganiq River	100	Yes	Yes
	1998/99		Qavarusiktuk River	98	Yes	No
Cape Dorset	1995\6	Yes				
	1996\97	Yes	Iqalugajuiit River	98	No	No
			Tagiugajuk River	100	Yes	No
	1997/98	Yes	Sapugajuiit River	95	Yes	Yes
			Oviluqtuuuq River	98	Yes	Yes
			Sapujuat River	100	Yes	Yes
			Tasiujaqjuaq River	96	No	No
	1998\99	No	Tasiujakalak	99	No	No
			Kangisunituq River	110	No	No
			Kangisuajuaq River	100	No	No
Igloolik	1995\96	Yes	Kukaluk Lake	99	No	No
	1996\97	Yes	Asta Lake	100	No	No
Hall Beach	1997\98	No	Tikiraq Lake	99	No	Yes
	1998\99	No	Naulingiavik River	98	No	No
Sanikiluaq	1997\98	No	Kasegalik Lake (West)	97	No	No
	1998\99	No	Kasegalik Lake (West)	100	No	No
			Kasegalik Lake (East)	99	No	No

Weights not used (unreliable).

* No otolith collected.

Table 2. Analysis of water samples (in micrograms per litre) from fishing sites.

	Sample Date	Stronium	Barium	Copper	Iron	Maganese	Nickel	Zinc
Arctic Bay								
Ikpikittuarjuk Lake	Sept 15/98							
Sample A		83	<5.0	1.3	5.0	<2.0	<2.0	
Sample B		83	<5.0	1.0	39	<2.0	<2.0	
Qakkiq Lake	Dec-98							
Sample A		<5.0	5.3	2.1	3.3	<2.0	<2.0	1.6
Sample B		<5.0	5.6	1.0	2.3	<2.0	<2.0	0.6
Pond Inlet								
Tuniit Lake								
Sample A	March 9/98	6.0	28	2.1	25.0	<2.0	<2.0	
Sample B		<5.0	5.0	2.6	36.0	<2.0	<2.0	
Ikaluit Lake	Nov 15/97	6.0	21	4.6	369	<2.0	<2.0	
Clyde River								
Killautarialik Lake	March 14/99							
Sample A		<5.0	<5.0	1.2	21.0	6.3	<2.0	0.7
Sample B		<5.0	<5.0	4.0	24.0	6.5	<2.0	4.2
Qikiqtaakjuaq								
Natluqsiak River								
Sample A	Jan 19/99	12	9	4.5	65	45	<2.0	
Sample B		10	5.0	2.2	378	10	<2.0	
Pangnirtung								
Avataktuuk Lake	May 9/97	<5.0	<5.0	1.1	9.1	4.0	<0.1	
Kimmirut								
Qiriaganiq Lake	August 9/97	6374	12	< 0.5.0	N/A	N/A	N/A	6.9
Ava Inlet (saltwater)	August 9/97	1497	12	0.8	20	3.0	< 2.0	9.3
Cape Dorset								
Sapujuat River	Sept 9/97	16	<5.0	<0.5	8.5	<2.0	<1.0	<2.0
Oviluqtuuq River	Sept 9/97	430	<5.0	2.1	19	5.0	<1.0	3.0
Sapugagjuit River	Sept 9/97	3074	11	0.9	N/A	N/A	N/A	3.3
Hall Beach								
Tikiraq Lake		19	<5.0	0.6	9.5	<2.0	<1.0	<0.5

Table 3. Results of local knowledge survey, Arctic Bay, 1995/96.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Changes
Ikpikittuarjuk River/Lake	1	4	60	1995	more	larger	1994
	4	10	10	1994	more	larger	1993
	5	2	25	1995	more	larger	1993
	6	3	25	1995	same	same	N/A
	7	2	40	1994	more	larger	1989
	8	6	31	1995	same	larger	no ans.
	10	3	25	1994	same	same	N/A
	11	3	12	1995	more	larger	1992
	12	4	8	1995	more	same	no ans.
	13	60	26	1995	more	larger	1992
	14	5	5	1995	same	same	N/A
	15	2	5	1994	more	larger	1975
	16	4	30	1995	fewer	smaller	1952
	16	4	30	1995	more	larger	1995
	17	2	8	1994	same	larger	no ans.
	18	7	14	1993	fewer	smaller	1992
	19	21	35	1995	more	larger	1967
	20	3	2	1947	more	smaller	no ans.
	Total	**145**	**391**				
Magda River/Lake	4	4	12	1992	same	same	N/A
	5	7	30	1989	same	same	N/A
	7	3	35	1993	fewer	smaller	1994
	8	4	40	1994	same	same	N/A
	10	7	3	1993	same	same	N/A
	12	3	25	1994	same	same	N/A
	13	2	4	1994	same	same	N/A
	14	7	35	1993	fewer	smaller	1994
	15	3	30	1995	same	same	N/A
	18	4	5	1992	same	same	N/A
	Total	**44**	**219**				
Eqalulik River/Lake	3	7	9	1988	fewer	smaller	1963/64
	5	30	5	1990	fewer	smaller	1963
	6	3	32	1995	more	smaller	1963/64
	7	3	35	1994	fewer	smaller	1960's
	14	4	30	1994	fewer	smaller	1993
	15	2	5	1994	fewer	smaller	1960
	16	7	37	1995	fewer	smaller	1959
	17	3	10	1993	fewer	smaller	1992
	18	1	30	1994	fewer	smaller	1980
	19	7	127	1995	same	larger	1993
	20	7	3	1948	same	same	N/A
	Total	**74**	**323**				

cont'd.

Table 3. Cont'd.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Changes
Qakkiaq River/Lake	2	50	2	1945	same	same	N/A
	8	2	36	1995	same	larger	1993
	9	7	8	1995	same	same	N/A
	Total	**59**	**46**				
Itiviluk River/Lake	11	2	2	1994	same	same	N/A
	12	2	2	1986	same	same	N/A
	Total	**4**	**4**				
Nunusiak River/Lake	13	7	4	1994	same	same	N/A
Iyuyuyunavuk River/Lake	16	3	4	95	same	same	N/A
Agugatiaktalik River/Lake	1	4	27	1994	more	same	no ans.
Itukuvik River/Lake	1	4	30	1995	same	same	N/A
Qayutinguaq River/Lake	2	1	3	90	fewer	smaller	1954
Niaquaqtalik River/Lake	1	1	3	1949	same	same	N/A

N/A = not applicable
no ans. = no answer given

Table 4. Reasons for changes in the fisheries quoted from the local knowledge survey, Arctic Bay, 1995/96. *

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1 Fished the same this year as in recent years. "Ikpikittuarjuk has increased in populations. If more fish are fish they usually increased if fished."
2 Fished less this year than in recent years. "Decreased in population in Pattalik Lake Marcel Lake . The chemicals that weather station used for balloon that was spilled to Marcel Lake and Qayutinguang."
3 Fished the same this year as in recent years. "Ikalulik ... population decreased. Because men argued, that decreased the population."
4 Fished the same this year as in recent years. "Ikpikituajuk has increased in population. The fish that used to be there increasing to orginally before it had lures."
5 Fished less this year than in recent years. "Sometime ago Ikalulik was fished on November. Ikpikituajuk had been fished with lures in 1954. That real reduce the population."
6 Fished the same this year as in recent years. "Only Ikalulik had more before now they are returning to have more fish. The use of nets that is why is declining some say they had argument about the fish in Ikalulik."
7 Fished the same this year as in recent years. "In maybe 1942 I forgot about the year but that years before lots of fish but hunter and built rocks and left it . Fish froze in shallow lake. Ikpikituajuk had rocks pile up in river . Left there and fish froze."
8 Fished the same this year as in recent years. "Kayutiguaq has change even though it never was fish as much. Don't know . Nobody real fish there but us."
9 Fished less this year than in recent years. "According to what I heard Marcel Lake fish has decreased in population. The size of lake does not make the different if there is net left in lake. The rod in lake even if it is big lake. I notice that near Hall Beach that is big lake we could not see the other side."
10 Fished the same this year as in recent years. "Ikpikituajuk has decreased in population. In 1930 in net lures made by hunter."
11 Fished the same this year as in recent years. "Ikpikituajuk has increased in population. The older fish are maturing."
12 Fished the same this year as in recent years. "Ikalulik fish stock change whenever it is fish decrease in population. Ikalulik has change whenever it is fished."
13 Fished the same this year as in recent years. "Ikpikituajuk has increased in population. If hunters are happy with hunting in that area they will increase same goes with other wildlife."
14 Fished the same this year as in recent years. "Ikalulik had more fish before now it has decreased in population. I think it is over fish by people not by contaminants."
15 Fished less this year as in recent years. "Ikpikituajuk has increased in population. I think the Ikpikituajuk is well look after now."
16 Fished the same this year as in recent years. "In 1959 in the fall there were fish caught were plenty. The hunters from 3 places were fishing. I only could say that was over fish but then people say that was argument about the fish. In 1946 there were lots of fish in the fall. With ice jigging one could fill on bag that was bag for 100 lbs flour and later on they still fish. In 1952 hunters were using tadition rock piling on river to stop them to go to lake. Since there was fewer fish but this summer 1995 lot more fish and larger size fish.
17 Fished less this year as in recent years. "No change."
18 Fished the same this year as in recent years. "Ikalulik fish decline in population. It had lot more fish and bigger red meat. No more now. Over fished and it is not getting more fished from other lakes."
19 Fished the same this year as in recent years. "In early 1970s Ikalulik had abundant of fish and go around. 1980 there were so few. Now they are increasing. The Ikalulik Lake had nets left there and the char had rotted in the lake."
20 Fished less this year than in recent years. "Ikalulik has decreased in population. Marcel Lake had lot more fish before. Maybe over fished."

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* Includes the answer to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 3).

Table 5. Catch and effort data for Ikpikittuarjuk Lake (Arctic Bay), November 1995.

mesh size	net length	hours	no. fish
3.0	200 ft	27.0	4
		17.5	7
		19.5	5
	Total	**64.0**	**16**
3.5	100 ft	2.0	2
		3.0	2
		12.0	5
		18.0	7
		21.0	3
		32.5	7
		13.5	5
	Total	**102.0**	**31**
3.5	50 ft	3.0	12
		12.0	8
		12.0	9
		12.0	8
		24.0	7
		48.0	7
	Total	**111.0**	**51**
4.5	200ft	6.0	6
		8.0	7
		19.0	4
		24.0	6
		29.0	5
		31.0	4
		41.0	6
	Total	**158.0**	**38**

mesh size	net length	hours	no. fish
3.0	100 yds	24	9

mesh size	net length	hours	no. fish
3.5	100 yds	24	44

mesh size	net length	hours	no. fish
4.5	100 yds	24	9

Table 6. Results of local knowledge surveys, Pond Inlet, 1995/96 and 1996/97.

1995/96

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
Ikaluit Lake	1	3	21	1995	same	same	N/A
	2	8	34	1995	more	larger	1988
	3	7	5	1995	same	larger	1989
	4	2	6	1994	same	larger	1994
	5	4	11	1994	same	larger	no ans.
	6	5	10	1995	same	same	1995
	7	7	20	1995	more	same	1970
	8	3	18	1992	same	same	N/A
	10	3	14	1995	more	larger	1994
	Total	**42**	**139**				
Utuk Lake	5	1	11	1994	fewer	same	1990
	6	2	20	1995	fewer	smaller	1978
	7	7	20	1995	more	larger	1989
	9	3	33	1994	fewer	smaller	1961
	10	7	30	1995	more	larger	1993
	Total	**20**	**114**				
Tuniit Lake	1	8	9	1994	same	same	N/A
	2	8	1	1994	same	same	N/A
	8	2	2	1972	fewer	same	1967
	Total	**16**	**10**				
Milne Inlet	1	4	30	1994	same	same	N/A
	4	3	11	1992	same	same	1964
	9	3	4	1982	more	larger	1984
	Total	**7**	**41**				
Iqalugarjuk Lake	5	1	4	1994	same	same	no ans.
Tremblay Sound	3	3	40	1993	more	larger	1958
Tugaat Lake	3	2	5	1988	more	larger	1957
	4	3	4	1994	fewer	larger	1957
	8	14	3	1967	more	same	1960
	Total	**19**	**12**				

cont'd.

Table 6. Cont'd.

1996/97

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
Ikaluit Lake	1	2	10	1996	more	same	1996
	2	2	40	1997	more	larger	1994
	3	4	20	1997	same	same	N/A
	4	4	4	1996	more	same	1996
	Total	**12**	**74**				
Utuk Lake	3	4	20	1997	same	same	N/A
Tuniit Lake	1	5	5	1995	same	same	N/A
	2	4	23	1997	more	same	1994
	4	7	4	1996	same	same	N/A
	Total	**16**	**32**				
Coutt's Inlet	2	3	13	1997	same	same	N/A
	4	7	1	1996	fewer	smaller	1996
	Total	**10**	**14**				
Nadluud River	3	2	40	1996	more	larger	1993
Tremblay Sound	1	6	20	1996	same	same	N/A

no ans. = no answer
N/A = not applicable

Table 7. Reasons for changes in the fisheries quoted from the local knowledge surveys, Pond Inlet, 1995/96 and 1996/97. *

1995/96

1 Fished the same this year as in recent years. "There seems to be no change in all these years I've fished."
2 Fished less this year than in recent years. "The fish in Ikaluit seem to be more and larger. I think it's due to better management."
3 Fished less this year than in recent years. "Tugaat had fewer fish but they seem to be coming back. The reason was: Somebody left their net in the late 70s."
4 Fished the less this year than in recent years. "In 1957 there seemed to be less fish in Tugaat. Now there seems to be more. Maybe it is due to better management at Tugaat."
5 Fished less this year than in recent years. "Because fewer people go camping these days."
6 Fished the less this year than in recent years. "There is no change in the fish population. It's always fluctuating."
7 Fished the less this year than in recent years. "Seems to be more fish in last five years. Because of better management."
8 Fished the less this year than in recent years. "Everybody is fishing less from Tugaat. Tugaat was closed by people for 3 years."
9 Fished less this year than in recent years. "Fish in Utuk Lake were getting less and less in the past, but they seem to be coming back. For three straight years someone left their net."
10 Fished the less this year than in recent years. "No change."

1996/97

1 Fished the same this year as in recent years. "Change [none]."
2 Fished same this year as in recent years. "Seems to be more fish in Koluktoo Bay in recent years. Maybe the earth is changing."
3 Fished the same this year as in recent years. "Nadluud River is the only change in fish population I notice. No one has fished in Nadluud River in recent years."
4 Fished less this year than in recent years. "Seems to be more fish in recent years. Movement of animals changes after few years."

* Includes the answers to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 6).

Table 8. Catch and effort data for Ikaluit Lake (Pond Inlet), February 1996.

mesh size	net length	hours	no. fish
4.0 in	99 ft	5.50	44
		29.25	44
		8.25	28
		26.50	41
	Total	**69.50**	**157**
5.0 in	144 ft	4.75	11
		17.75	23
		20.75	20
		7.25	10
		15.50	25
		7.00	12
		15.50	26
	Total	**88.50**	**127**

mesh size	net length	hours	no. fish
4.0	**100 yd**	**24**	**162**

mesh size	net length	hours	no. fish
5.0	**100 yd**	**24**	**72**

Table 9. Catch and effort data for Ikaluit Lake (Pond Inlet), November 1997.

mesh size	net length	hours	no. fish
5.5 in	150 ft	5.00	13
		11.00	37
		11.00	27
		7.50	11
		7.50	5
		19.50	19
		4.00	18
		2.75	14
	Total	**68.25**	**144**
5.5 in	50 ft	3.50	7
		5.00	7
		11.50	18
		4.00	26
		4.00	25
		20.00	42
		4.50	26
	Total	**52.50**	**151**
5.5 in	100 ft	4.00	15
		14.00	26
		6.00	9
		5.00	11
		11.50	26
		4.50	7
		4.00	21
		13.00	11
		4.00	18
		7.00	18
		11.00	21
		3.00	14
		3.50	11
		5.00	6
		12.00	18
		12.50	14
		12.50	15
		6.50	20
		4.50	12
	Total	**143.50**	**293**

mesh size	net length	hours	no. fish
5.5	**100 yd**	**24**	**221**

Table 10. Catch and effort data for Tugaat Lake (Pond Inlet), February 1996.

mesh size	net length	hours	no. fish
4.5 in	100 ft	6.00	11
		11.50	12
	Total	**17.50**	**23**
5.5 in	150 ft	5.50	8
		13.00	14
		5.50	3
		4.25	3
		13.50	8
		14.00	14
		5.75	9
		4.25	12
		12.75	12
	Total	**78.50**	**83**

mesh size	net length	hours	no. fish
4.5 in	100 yd	24	96

mesh size	net length	hours	no. fish
5.5 in	100 yd	24	53

Table 11. Catch and effort data for Coutts Inlet Lake (Pond Inlet), February, 1997.

mesh size	net length	hours	no. fish
5.5 in	150 ft	5	9
		10	22
		6	10
		5	10
		12	6
		6	2
		5	3
		13	3
		6	2
		5	1
		12	4
		5	8
		12	2
		6	3
		5	2
		13	2
		6	2
		5	1
		12	3
	Total	**149**	**95**

mesh size	net length	hours	no. fish
5.5	100 yd	24	31

Table 12. Catch and effort data for Tuniit Lake (Pond Inlet), February, 1997.

mesh size	net length	hours	no. fish
5.5 in	100 ft	6.00	30
		16.00	22
		8.00	9
		17.00	12
		6.00	4
		17.50	27
		7.50	9
		17.00	23
	Total	**95.00**	**136**

mesh size	net length	hours	no. fish
5.5 in	100 yd	24	49

Table 13. Catch and effort data for Tuniit Lake (Pond Inlet), November, 1997.

mesh size	net length	hours	no. fish
5.5 in	150 ft.	5.0	3
		5.0	4
		10.0	6
		22.0	13
		25.0	10
		7.0	7
		4.5	4
	Total	**78.5**	**47**
5.5 in.	50 ft	3.0	0
		6.0	10
		15.0	3
		12.0	18
		8.0	9
		3.0	5
		10.0	14
		16.5	10
		7.0	15
		7.0	4
		4.5	4
		4.5	1
		9.5	14
		11.5	14
	Total	**117.5**	**121**

mesh size	net length	hours	no. fish
5.5 in	100 yd	24	59

Table 14. Results of local knowledge surveys, Clyde River, 1995/96 and 1996/97.

1995/96

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
Rocknoser Fiord	1	30	4 to 5	1960s	more	larger	1995
	4	7	8 to 10	1995	more	larger	recently
	Total	**37**	**12 to 15**				
Scot Inlet	2	7	10	1960s	same	larger	recently
	6	7	3 to 4	1993	same	same	N/A
	7	7	5	1994	no ans.	no ans.	no ans.
	8	7	2 to 3	1995	same	same	N/A
	9	7	2	1995	same	same	N/A
	Total	**35**	**22 to 24**				
Clyde River	3	30	10	1970s	fewer	larger	recently
	5	30	10	1970	fewer	smaller	no ans.
	7	30	5	1970s	fewer	smaller	no ans.
	8	30	5	1994	fewer	smaller	1970
	9	21	10	1995	more	larger	1994
	Total	**141**	**40**				
Sam Ford Fiord	3	3	5	1970s	fewer	same	no ans.
	5	7	3 to 4	1970s	same	same	N/A
	7	7	5 to 6	1994	no ans.	no ans.	no ans.
	8	7	2 to 3	1995	same	same	N/A
	9	7	2	1995	same	same	N/A
	Total	**31**	**17 to 20**				
Qamartalik Cove	4	7	5 to 10	1960s	same	same	N/A
	1	14	5	1960s	no ans.	no ans.	no ans.
	Total	**21**	**5 to 10**				
Clyde Inlet	1	14	3	1992	same	same	N/A
Kugaluk River	1	3	4	1995	same	same	N/A
Kuptana River	1	4	3	1995 95	same	same	N/A
Kuviniq River	1	4	4	1995	same	same	N/A

cont'd.

F2

Table 14. Cont'd.

1996/97

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Changes
Naqsaarluk Lake/River	1	3 to 4	10	1996	more	same	1996
	2	7	2	1996	same	same	N/A
	3	4	5	1996	same	larger	1996
	6	2	30	1996	same	same	N/A
	7	4	16	1996	same	larger	1996
	8	7	10	1996	same	same	1996
	9	7	5	1996	more	same	1996
	Total	**31 to 32**	**78**				
Sam Ford Fiord	1	5	20	1995	same	larger	1996
	5	7 to 8	20	1995	more	larger	1995
	6	2	30	1990	more	larger	1996
	7	6	30	1996	more	larger	1996
	8	7	30	1995	more	larger	1995
	9	14	20	1995	same	larger	1995
	10	4	40	1996	more	larger	1996
	Total	**37 to 38**	**190**				
Kutannuq Lake/River	1	7	10	1996	fewer	same	1996
Kogalu River	4	7	no ans.	1994	same	same	N/A

no ans. = no answer given
N/A = not applicable

Table 15. Reasons for changes in the fisheries quoted from the local knowledge surveys, Clyde River, 1995/96 and 1996/97. *

1995/96

1 Fished less this year than in recent years. "In Rocknoser Fiord the fishermen are catching bigger fish. Maybe due to less fishing in recent years."
2 Fished less this year than in recent years. "The fish in Scot inlet have increased in population and size. Probably due to less fishing in late 1970s.
3 Fished less this year than in recent years. "There used to be more fish in past when we used to go there by dog teams (Sam Ford Fiord). Probably due to more fishing in that area."
4 Fished more this year than in recent years. "The fish in Clyde River used to be bigger in 1960s but after US base dumped chemical use for weather balloons in the water most of fish died out. Now, the size and population are regaining in Clyde River.
5 Fished less this year than in recent years. "In the past we used to go there [Sam Ford Fiord] to fish by dog team and we used to catch lot of fish using only hooks and spears (kakivak). Don't see any changes in populations and size of fish."
6 Fished less this year than in recent years. "The fish population in Clyde River decrease in early 70s. Now the population is regaining and becoming bigger in size each year. Probably [due] to the pollution and over fishing."
7 Fished less this year than in recent years. "Some year there are more fish in other area and less in others. Maybe the fish goes to other lakes in winter."
8 Fished more this year than recent years. "No changes [in fish population]."
9 Fished more this year than in recent years. "[Fish populations] still the same. Don't see any changes."
10 Fished less this year than in recent years. "This year there same to be fish, but every is different. Every year is different in fish populations."

1996/97

1 Fished the same amount this year as in recent years. "In Spud River [Kuukannaq] lake there seem to be less fish this year. Maybe because more and more people are fishing there than recent years."
2 Fished same amount this year. "Unless you fish the right time you will catch more. Because, sometime fish move around and other time they just tend to stay at the bottom of the lake."
3 Fished less this year than in recent years. "They seem to [be] increasing in population each year. I don't know why, maybe because the government has put quotas on them and people are fishing with limit."
4 Fished less this year than in recent years. "Each year is different. sometime there more and sometime there less. Maybe they went to other places where there more food."
5 Fished less this year than in recent years. "There more fish this year. Maybe there more food in that area."
6 Fished less this year than in recent years. "The fish population in Sam Ford Fiord is increasing. Like few years back we used to catch lot more. When people first started using skidoo on the lake the fish population went down probably from the noise or people were leaving something on the ice that is not good for fish."
7 Fished less this year than in recent years. "The lake seem to getting more fish each year [Naglaarsak]. I was using 5.5 inch mesh net. Maybe that why I was getting larger fish."
8 Fished more this year than in recent years. "Every year is different and this year there seem to be more fish plus we were catching larger fish than last year in Sam Ford Fiord. Maybe this year the fish went to the lake where I was fishing instead of other lakes."
9 Fished less this year than in recent years. "There seems to be more fish last year in Sam Ford Fiord and more fish this year in Nuqsaaluk. Maybe the fish were moving around more in these lakes."
10 Fished more this year than in recent years. "This year I spend less in Sam Ford Fiord than last year because I was catching more and the fish I'm catching each year seem to be getting larger. Maybe I'm catching fish that usually goes to other lake that I don't fish in.

* Includes the answers to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 14).

Table 16. Catch and effort data for Kuuktannaq River (Clyde River), August 1995.

mesh size	net length	hours	no. fish	mesh size	net length	hours	no. fish
5.5 in	50 yards	2.0	10	5.5	100 yd	24	24
		13.0	7				
		14.0	15				
		17.0	7				
		11.0	4				
		38.5	22				
		21.0	3				
		5.0	1				
		21.5	11				
		28.5	1				
	Total	**171.5**	**81**				

Table 17. Catch and effort data for Kogalu River (Clyde River), August 1996.

mesh size	net length	hours	no. fish	mesh size	net length	hours	no. fish
5.5 in	50 ft	7	10	5.5	100 yd	24	469
		6	35				
		8	23				
	Total	**21**	**68**				

The remainder of the Catch and Effort data was not usable because the number of fish caught in 4.5 inch and 5.5 inch mesh gillnets were not separated by mesh size. In other incidences the dates and times were not indicated or were obviously in error.

Table 18. Catch and effort data for Naqsaarluk Lake (Clyde River), May 1997.

mesh size	net length	hours	no. fish
4.5 in	50 yd	16.5	13
		7.5	4
	Total	**24.0**	**17**
5.5 in	50 yd	11.5	11
		14.5	9
		6.0	2
		11.5	10
		5.5	1
		5.0	7
		17.0	10
		7.0	9
		13.0	12
	Total	**91.0**	**71**

mesh size	net length	hours	no. fish
4.5	**100 yd**	**24**	**34**

mesh size	net length	hours	no. fish
5.5	**100 yd**	**24**	**37**

Table 19. Catch and effort data for Sam Ford Fiord (Clyde River), March 1998.

mesh size	net length	hours	no. fish
5.5 in	50 ft	7.75	6
		4.00	11
		3.00	9
		15.00	15
		11.00	4
		12.00	16
		11.50	13
		8.00	7
		4.00	4
		5.00	4
	Total	**81.25**	**89**

mesh size	net length	hours	no. fish
5.5	**100 yd**	**24**	**158**

Table 20. Results of local knowledge surveys, Qikiqtaarjuaq, 1995/96 and 1996/97.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
1995/96							
Padle System	1	6	25	1994	more	same	1992
	2	10	17	1995	more	same	no ans.
	3	4	30	1995	fewer	smaller	1987
	4	14	15	1995	more	same	1993
	5	3	45	1994	fewer	smaller	1980s
	6	7	10	1995	more	larger	1990
	7	5	10	1995	fewer	smaller	1990
	8	21	27	1995	same	same	N/A
	9	5	20	1995	more	same	1993
	Total	**75**	**199**				
Natluksiak Lake	1	3	25	1995	fewer	same	1996
	2	16	23	1995	same	same	
	3	7	30	1995	fewer	same	
	4	14	5	1995	more	same	1985
	5	4	25	1995	same	same	
	6	2	30	1994	fewer	smaller	1980s
	7	3	20	1994	more	larger	1990
	8	3	21	1996	fewer	smaller	1986
	9	7	9	1994	fewer	smaller	1994
	10	5	22	1994	same	same	
	Total	**64**	**210**				
Nudluit Lake	1	3	25	1994	fewer	smaller	1996
	2	6	8		fewer	smaller	1987
	3	7	56		fewer	smaller	1980s
	4	14	15	1994	same	same	
	5	5	19	1994	same	smaller	1993
	6	3	50	1994	fewer	smaller	1980s
	7	3	10	1990	same	same	
	8	5	4	1990	fewer	smaller	1990
	9	10	2	93	fewer	smaller	1993
	10	5	22	1994	fewer	smaller	1990
	Total	**61**	**211**				
1996/97							
Padle System	1	20	30	1997	same	same	
	2	10	12	1997	same	same	1989
	3	180	23	1997	more	same	1987
	4	20	20	1997	same	larger	
	Total	**230**	**85**				

cont'd.

Table 20. Cont'd.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
Natluksiak Lake	**1**	16	50	1997	more	same	no ans.
Tunusuk Lake	**2**	25	20	1997	more	same	no ans.
Tasigjuaq Lake	**3**	25	30	1997	same	same	N/A
Souvailik Lake	**5**	35	25	1997	same	same	N/A
Nudluit Lake	**9**	20	25	1997	same	same	N/A
Kagnillajuk Lake	**10**	30	58	1997	same	same	N/A

no ans. = no answer
N/A = not applicable

Table 21. Reasons for changes in the fisheries quoted from the local knowledge surveys, Qikiqtaarjuaq, 1995/96 and 1996/97. *

1995/96

1 Fished the same amount this year as in recent years. "In Natluksiak and Nudluit there are fewer fish than in recent years. Maybe because of polyethelene nets and maybe they used smaller mesh size."
2 Fished the same amount this year as in recent years. " Never had noticed the changes in the fish population."
3 Fished more in the 1960s than these days. "In Padle System fish used to have red spots and now there are hardly any. According to Nudluit there might be fewer fish because more people are fishing and I think the bigger fish are being caught."
4 Fished more this year than in recent years. "In Padle System fish population has changed and there has been more fish. I have no idea that these changes are occurring."
5 Fished the same amount this year as in recent years. "No I have never noticed changes in the fish populations. Never noticed to these changes are occurring."
6 Fished less this year than in recent years. "I have noticed in thes 3 lakes (Padle system, Natluqsiak and Nudluit) there are less fish. More people had caught more fish than in the recent years."
7 Fished more this year than in recent years. "In last 10 years in Padle System fish are getting better in the past more old fish. In Padle System the old fish in my opinion are now fewer."
8 Fished less in Natluksiak than in recent years. "In Natluksiak and Nudluit there are fewer fish. These changes are occurring to commercial fishing."
9 Fished the same amount this year as in recent years. " I have noticed Nudluit the fish population is now fewer. People has overfish in Nudluit in the past."
10 Fished more this year than in recent years. "I have noticed more fish populations. More people are fishing and fish are getting better."

1996/97

1 Fished less this year than in recent years. " No changes."
2 Fished less this year than in recent years. "More populations."
3 Fished more this year than in recent years. " Increase in fish population.
4 Fished more this year than in recent years. "More fish. [Unreadable]....better meat like red."
5 Fished more this year than in recent years. "[There are] more [fish.]"
6 Fished the same amount this year as in recent years. " There are more [fish] each year."
7 Fished more this year than in recent years. " No changes."
8 Fished more this year than in recent years. "[There are] more populations."
9 Fished the same amount this year as in recent years.
10 Fished more this year than in recent years. "More populations."

* Includes the answers to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 20).

Table 22. Catch and effort data for Natluksiak Lake (Qikiqtaarjuaq), 1995 and 1999.

October 1995

mesh size	net length	hours	no. fish
5.0 in	50 yds	1.0	71
		0.5	45
		1.0	80
		2.0	89
		2.0	101
		2.0	108
		15.0	152
		17.0	91
		1.0	44
		1.0	64
		1.0	31
		0.5	43
	Total	**44.0**	**919**

mesh size	net length	hours	no. fish
5.0	**100 yd**	**24**	**1004**

January 1999

mesh size	net length	hours	no. fish
5.25 in	50 yds	2.50	19
		2.75	30
		1.00	30
		1.00	19
	Total	**7.25**	**98**
5.00 in	50 yds	0.25	6
		12.00	103
		25.50	63
		3.50	76
		4.00	11
	Total	**45.25**	**259**

mesh size	net length	hours	no. fish
5.25	**100 yd**	**24**	**648**

mesh size	net length	hours	no. fish
5.5	**100 yd**	**24**	**274**

Table 23. Catch and effort data for Nudluit Lake (Qikiqtaarjuaq), January 1996.

mesh size	net length	hours	no. fish
5.5 in	**50 ft**	**2.5**	**47**
		17.5	**38**
		46.0	**1**
		86.5	**32**
		19.0	**42**
	Total	**171.5**	**160**
5.5 in	**100 ft**	**18.5**	**77**
		2.0	**96**
		17.5	**43**
		46.5	**1**
		96.0	**0**
	Total	**180.5**	**217**

mesh size	net length	hours	no. fish
5.5	**100 yd**	**24**	**311**

Table 24. Results of local knowledge survey, Pangnirtung, 1995/96.

	Fishers	*No. Days Fished*	*No. Years Fished*	*Year Last Fished*	*No. of Fish*	*Size of Fish*	*Year of Changes*
Ikalukjuaq	1	2	15	1995	fewer	same	1984
(Iqalukjuaat)	2	2	4	1996	fewer	same	1961
	4	6	40	1996	fewer	smaller	1976
	5	5	30	1996	fewer	smaller	1976
	6	9	35	1996	fewer	same	1976
	7	5	26	1996	fewer	smaller	1983
	8	3	21	1997	fewer	smaller	1978
	9	2	30	1996	fewer	smaller	1986
	Total	**34**	**201**				
Kingnait	2	3	3	1996	same	same	N/A
Fiord	5	3	20	1996	same	same	N/A
	6	3	3	1995	same	same	N/A
	7	2	19	1995	same	same	N/A
	8	3	21	1996	same	same	N/A
	9	3	30	1996	same	same	N/A
	Total	**17**	**96**				
Avatatuuq	1	10	20	1996	same	same	N/A
(Avataktuuk	4	9	40	1996	same	same	N/A
River/Lake)	5	10	37	1996	same	same	N/A
	9	2	30	1996	same	same	N/A
	Total	**31**	**127**				
Kipisa	4	10	40	1996	fewer	smaller	1978
River/Lake	6	6	39	1995	fewer	same	1978
	7	10	20	1996	fewer	smaller	1982
	Total	**26**	**99**				
Ikaluit	2	9	20	1996	same	same	N/A
River/Lake	8	2	35	1993	fewer	same	1986
		11	**55**				
Clearwater Fiord	1	3	3	1995	same	same	N/A
Anatuajuit River/Lake	3	3	10	1994	same	same	N/A
Eyarovah River/Lake	3	3	9	1995	same	same	N/A
Ikpik River/Lake	3	4	4	1996	same	same	N/A

N/A = Not applicable

Table 25. Reasons for changes in the fisheries quoted from the local knowledge survey, Pangnirtung, 1995/96. *

1	Fished less this year than in recent years. "Noticed change in fish scales in Avataqtuu and Ikalukjuaq (small bumps in the scale). Don't know why these changes are occurring maybe because of pollution."
2	Fished more this year than in recent years. "Ikalukjuaq has fewer fish because of commercial fishing before."
3	Fished more this year than in recent years. "No change in fish population."
4	Fished more this year than in recent years. "Because of commercial fishing Avataqtuu and Kipsa have fewer fish."
5	Fished less this year than in recent years. "Ikalukjuaq has fewer fish now because of commercial fishing before using 5.5 [inch mesh] nets."
6	Fished less this year than in recent years. "Ikalujuak and Kipisa have fewer fish because of commercial fishing using 5.5 [inch mesh] nets."
7	Fished less this year than in recent years. "Ikalujuak and Kipisa have fewer fish because of commercial fishing using 5.5 [inch mesh] nets."
8	Fished less this year than recent years. "Because of commercial fishing there are fewer fish using 5.5 nets."
9	Fished same amount this year than in recent years. "Ikalukjuak have fewer fish because of commercial fishing using 5.5 [inch mesh] nets."

* Includes the answer to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 24).

Table 26. Catch and effort data for Iqalukjuaat (Pangnirtung), August 1997.

mesh size	net length	hours	no. fish
5.0 inch	100 ft	3.5	17
		1.5	22
	Total	**5.0**	**39**
5.5 in	150 ft	2.5	29
		3.0	30
		2.0	26
	Total	**7.5**	**85**

mesh size	net length	hours	no. fish
5.0	100 yds	24	561

mesh size	net length	hours	no. fish
5.5	100 yds	24	544

Table 27. Catch and effort data for Kipisa River (Pangnirtung), August 1997.

mesh size	net length	hours	no. fish
5.0 inch	100 ft	1.5	36
	Total	**1.5**	**36**
5.5 in	150 ft	1.5	86
	Total	1.5	**86**

mesh size	net length	hours	no. fish
5.0	100 yds	24	1728

mesh size	net length	hours	no. fish
5.5	100 yds	24	2752

Table 28. Results of local knowledge survey, Kimmirut, 1995/96.

	Fishers	*No. Days Fished*	*No. Years Fished*	*Year Last Fished*	*No. of Fish*	*Size of Fish*	*Year of Changes*
Tasiuja River/Lake	3	60	48	1995	same	smaller	no ans.
	6	no ans.	no ans.	no ans.	fewer	seasonal	1985-95
	7	48	20	1995	seasonal	smaller	1990s
	Total	**108**	**68**				
Iqaluit River/Lake	2	30	45	1996	no ans.	no ans.	no ans.
	5	7	25	1995	more	variable	no ans.
	6	25	23	1995	fewer	variable	1985-95
	8	21	20	1995	variable	variable	no ans.
	9	50	25	1995	same	same	N/A
	10	35	26	1995	same	variable	no ans.
	Total	**138**	**119**				
Tuulitsit River/Lake	4	30	30	1996	fewer	same	1960
	3	no ans.	no ans.	no ans.	fewer	smaller	no ans.
	Total	**30**	**30**				
Sikudutuq River/Lake	1	25	17	1996	same	larger	no ans.
Pituqi River/Lake	8	no ans.	no ans.	no ans.	variable	variable	no ans.
Anaqtuuqjuarjuk Fiord	9	no ans.	no ans.	no ans.	same	same	N/A
Qingu River/Lake	7	no ans.	no ans.	no ans.	seasonal	same	no ans.
Qavarusiqtuuq River/Lake	2	no ans.	no ans.	no ans.	variable	smaller	1980s, 90s

no ans. = no answer
N/A = not applicable

Table 29. Reasons for changes in the fisheries quoted from the local knowledge survey, Kimmirut, 1995/96. *

1	Fished less in past couple of years. "Haven't noticed any changes."
2	Fished more in past couple of years. "Not much changes but when they banned fishing nets there seemed to be more. People go fishing every single year so they must be taking all the big fish."
3	Fished more before (getting older and not going out as much). "Fish move from one place to another so he thinks that is why there is fewer fish. The garbage from the dump and the snowmobiles and ATVs scare the fish away."
4	Fished less this year, more in other years. "Fewer fish caused by overfishing. If people fished less it would be the same. In summer, the rock piled up aren't being managed."
5	Haven't fished this year yet. I don't know if there is any changes. "The only change I noticed was the skin of the fish. I think it's caused by rocks going upstream. The skin appeared to be thinner."
6	Haven't fished in '96 but will probably go in spring. "The only thing noticed is the fewer fish in Iqaluit and Tasuija. These changes are caused by people's garbage and more snowmobile use."
7	Will fish in May or June. Lack of fish in Tasuija these days. "Qingu seems to have more because people don't go there as much. Some fish aren't biting in some fishing areas. Fish were biting more before."
8	No fishing in '96. "Noticed no changes in population. No changes are occurring."
9	We haven't fished in '96 yet. I haven't noticed any changes. "The amount of fish is the same every year. I don't know of any changes occurring."
10	Waiting until spring to fish. Haven't noticed any changes in population. "Few years ago, people weren't taking their garbage but now people are more aware of their garbage."

* Includes the answers to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 24).

Table 30. Catch and effort data for Katoga River (Kimmirut), July 1996.

mesh size	net length	hours	no. fish
4.0 inch	250 ft	13.0	30
4.0 inch	150 ft	2.0	70
4.5 inch	150 ft	2.0	20
		6.5	30
	Total	**8.5**	**50**

mesh size	net length	hours	no. fish
4.0 inch	100 yds	24	879

mesh size	net length	hours	no. fish
4.5 inch	100 yds	24	280

Table 31. Catch and effort data for Natsiaqtuuq River (Kimmirut), July 1996.

mesh size	net length	hours	no. fish
4.0 inch	250 ft	4.0	80
4.5 inch	150 ft	0.5	42
		0.2	8
	Total	**0.7**	**50**

mesh size	net length	hours	no. fish
4.0 inch	100 yds	24	576
4.5 inch	100 yds	24	3490

Table 32. Catch and effort data for Quaralik River (Kimmirut), August 1997.

mesh size	net length	hours	no. fish
4.0 inch	100 ft	0.5	74
		0.5	3
		6.0	17
		5.0	18
		4.0	12
		3.5	14
		3.0	8
		2.0	4
		4.0	46
		2.0	14
		1.0	16
		0.5	16
	Total	**32.0**	**242**

mesh size	net length	hours	no. fish
4.0 inch	100 yds	24	558

Table 33. Catch and effort data for Qiviaganiq River (Kimmirut), August 1997.

mesh size	net length	hours	no. fish
4.0 inch	100 ft	6.5	24
		0.5	16
		1.0	16
		1.0	9
		0.5	17
		0.5	18
	Total	**10.0**	**100**

mesh size	net length	hours	no. fish
4.0 inch	100 yds	24	720

Table 34. Catch and effort data for Qavarusiktuk River (Kimmirut), August 1997.

mesh size	net length	hours	no. fish
4.5 in	30 feet	2.25	19
		2.25	12
		1.75	6
		4.00	7
		5.00	16
		3.00	16
		0.75	7
		1.00	2
		4.00	15
	Total	**24.00**	**100**

mesh size	net length	hours	no. fish
4.5	100 yds	24	1039

Table 35. Results of local knowledge surveys, Cape Dorset, 1995/96 and 1996/97.

1995/96

	Fisher Number	*No. Days Fished*	*No. Years Fished*	*Year Last Fished*	*No. of Fish*	*Size of Fish*	*Year of Change*
Satugituq	**1**	30	60	1992	same	smaller	1982
Lake/River	**3**	30	30	1982	same	smaller	1982
	6	30	30	1983	same	smaller	1983
	8	30	25	1993	fewer	smaller	1993
	10	60	50	1980	fewer	smaller	1980
	11	30	70	1994	same	smaller	1980
	13	30	13	1984	same	smaller	1984
	17	30	30	1995	fewer	smaller	1995
	18	60	35	1975	fewer	smaller	1975
	Total	**330**	**343**				
Iqalugajuit	**1**	30	60	1991	same	larger	1991
Lake/River	**6**	60	30	1983	same	smaller	1983
	8	30	25	1995	same	smaller	1995
	10	60	50	1980	same	smaller	1980
	11	60	70	1992	same	smaller	1991
	13	30	13	1994	same	smaller	1992
	17	30	30	1994	same	larger	1994
	Total	**300**	**278**				
Tagugajuq	**1**	30	60	1991	same	smaller	1992
Lake/River	**6**	60	30	1983	same	smaller	1983
	8	30	25	1995	same	smaller	1995
	11	60	70	1994	same	smaller	1991
	13	30	13	1994	same	smaller	1992
	17	30	30	1995	same	larger	1995
	Total	**240**	**228**				
Sapujuat	**2**	30	60	1992	same	smaller	1984
	3	30	25	1995	fewer	smaller	1995
Lake/River	**4**	30	30	1995	fewer	smaller	1995
	5	30	30	1981	same	smaller	1981
	7	30	25	1995	fewer	smaller	1995
	9	30	50	1980	same	smaller	1980
	12	60	70	1991	same	larger	1990
	16	30	70	1995	same	smaller	1991
	Total	**270**	**360**				
Tasiujaqjuarq	**14**	year round	30	1994	same	smaller	1990
Lake/River	**15**	year round	30	1995	same	smaller	1995
	Total	year round	**60**				

cont'd.

Table 35. Cont'd.

1996/97

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
Tasiujajuaq Lake/River	1	70	19	1995/1996	same	same	N/A
	2	36	45	1995/1996	same	same	N/A
	3	6	9	1996	same	same	N/A
	Total	**106**	**64**				
Taqiugajuq Lake/River	2	1	15	1996	same	same	N/A
	8	4	7	1995	same	same	N/A
	Total	**5**	**22**				
Sapujuat Lake/River	1	1	15	1996	same	same	N/A
Tinitunituk Lake/River	3	20	11	1996	same	same	N/A
	4	28	25	1996	same	same	N/A
	5	2	3	1996	same	same	N/A
	Total	**50**	**39**				
Iqalugajuk Lake/River	1	2	10	1996	same	same	N/A
	2	20	33	1995	same	same	N/A
	Total	**22**	**43**				
	4	14	47	1996	same	same	N/A
	6	10	10	1996	same	larger	1996
	8	3	5	1995	same	same	N/A
	Total	**27**	**62**				
Nasilik Lake/River	7	65	5	1962	same	same	N/A

N/A = not applicable

Table 36. Reasons for changes in the fisheries as quoted from the local knowledge surveys, Cape Dorset, 1995/96 and 1996/97. *

1995/96

1 "Fished less at Satugituq, more at Iqalugajuit and less at Tagiugajuaq. Haven't noticed any changes."
2 Fished less this year than in recent years. "Noticed [no changes] in the populations."
3 Fished less this year than in recent years. "No other changes in the populations."
4 Fished less this year than in recent years. "Haven't noticed any changes in the populations."
5 Fished less this year than in recent years. "Haven't noticed any changes in the populations."
6 Fished less at Satugituq this year than in recent years; same amount at Iqalugajuit and Tagiugajuaq. "No changes in the populations."
7 Fished less this year than in recent years. "No, I never noticed any changes in the populations."
8 Fished less this year than in recent years. "I never noticed any changes in the populations."
9 Fished the same amount this year than in recent years. "No I have not noticed any changes in the populations."
10 Fished less at Satugituq this year than in recent years; same amount at Iqalugajuit and Tagiugajuaq. "Haven't noticed any changes in the populations."
11 Fished less at Satugituq this year than in recent years; same amount at Iqalugajuit and Tagiugajuaq. "Haven't noticed any changes in the populations"
12 Fished less this year than in recent years. "Haven't noticed any changes in the populations."
13 Fished less at Satugituq this year than in recent years; same amount at Iqalugajuit and Tagiugajuaq. "Haven't noticed any changes in the populations"
14 Fished less this year than in recent years. "Haven't noticed any changes in the populations."
15 Fished less this year than in recent years. "Haven't noticed any changes in the populations."
16 Fished less this year than in recent years. "Haven't noticed any changes in the populations."
17 Fished less at Satugituq this year than in recent years; same amount at Iqalugajuit and Tagiugajuaq. "Haven't noticed any changes in the populations"
18 Fished less this year than in recent years. "Haven't noticed any changes in the populations."

1996/97

1 Fished less this year than in recent years. "No changes in the populations."
2 Fished more this year than in recent years. "No changes in the populations."
3 Fished more this year than in recent years. "No changes in the populations."
4 Fished less this year than in recent years. "No changes in the populations."
5 Fished same this year as in recent years. "No changes in the populations."
6 Fished less this year than in recent years. "This year I been getting larger fish than the past years, they probably got more food to eat."
7 Fished same amount this year than in recent years. "No changes in the populations."
8 Fished less this year than in recent years. "No changes in the populations."
9 "Haven't noticed any changes in the populations."
10 Fished the same amount this year as in recent years. "No changes in the populations."

* Includes the answers to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 35).

Table 37. Catch and effort data for Sapugajuiit (Cape Dorset), August 1997.

mesh size	net length	hours	no. fish	mesh size	net length	hours	no. fish
4.5 inch	300 ft	5	10	**4.5 in**	**100 yds**	**24**	**49**
		16	10				
		4.5	42				
		17.5	27				
		6	11				
	Total	**49**	**100**				

Table 38. Catch and effort data for Oviluqtuuq River (Cape Dorset), August 1997.

mesh size	net length	hours	no. fish	mesh size	net length	hours	no. fish
4.0 inch	50 ft	0.5	22	**4.0 inch**	**100 yds**	**24**	**6336**
		0.5	**22**				
4.5 inch	150 ft	0.5	74	**4.5 inch**	**100 yds**	**24**	**4128**
		0.5	12				
		1.0	**86**				

Table 39. Catch and effort data for Sapujuat River (Cape Dorset), August 1997.

mesh size	net length	hours	no. fish	mesh size	net length	hours	no. fish
4.0 inch	225 ft	2.5	0	**4.0 inch**	**100 yds**	**24**	**45**
		2.0	0				
		2.0	4				
		2.5	0				
		9.0	**4**				
4.0 inch	144 ft	2.5	2				
		15.0	48				
		5.0	7				
		8.0	15				
		4.5	9				
		35.0	**81**				
4.0 inch	575 ft	10.0	1				
		6.0	1				
		8.0	8				
		6.0	4				
		4.0	0				
		34.0	**14**				
4.5 inch	250 ft	**7.5**	**0**	**4.5 inch**	**250 ft**	**24**	**0**
5.0 inch	120 ft	**9.5**	**0**	**5.0 inch**	**120 ft**	**9.5**	**0**

Table 40. Results of local knowledge surveys, Igloolik, 1995/96, 1996/97, and 1997/98.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
1995/96							
Kukaluk	1	14	3	1995	more	same	1995
Lake/River	3	28	8	1995	same	same	N/A
	Total	**42**	**11**				
Lailor	1	8	8	1995	more	smaller	1993
Lakes	2	15	5	1995	same	same	N/A
	Total	**23**	**13**				
Kapuvik	2	5	10	1990	same	same	N/A
Lake	4	20	20	1995	less	larger	1995
	Total	**25**	**30**				
Griffiths	2	3	15	1995	same	same	N/A
Lake							
Asta	3	14	3	1995	more	same	1994
Lake	4	8	4	1995	more	smaller	no ans.
	Total	**22**	**7**				
Erichsen	3	30	16	1994	more	smaller	1980-95
Lake	4	10	4	1995	same	same	1980-95
	Total	**40**	**20**				
1996/97							
Kakuluk	1	15	9	1997	same	same	N/A
Lake/River	2	14	14	1984	same	same	N/A
	3	5	11	1996	same	same	N/A
	4	8	15	1997	same	smaller	1997
	6	6	13	1990	more	larger	1990s
	7	5	14	1979	more	same	1979
	8	2	11	1994	more	same	recently
	9	5	12	1996	more	larger	any year
	10	5	11	1995	same	same	N/A
	Total	**65**	**110**				
Gifford	2	2	11	1997	more	larger	1997
River	3	6	12	1997	more	same	1997
	4	20	15	1996	same	same	N/A
	5	7	15	1997	more	larger	1997
	7	15	17	1997	same	same	N/A
	8	6	13	1997	same	same	N/A
	9	10	15	1997	more	larger	any years

cont'd.

Table 40. Cont'd.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
Gifford	**10**	5	11	1997	same	same	N/A
River	**Total**	**71**	**109**				
Asta Lake	**1**	30	14	1997	same	same	
Cozier	**1**	40	10	1997	same	same	N/A
River	**2**	7	11	1997	less	smaller	1980s
	Total	**47**	**21**				
Mogg	**3**	15	12	1995	same	same	N/A
Bay	**5**	20	10	1996	same	smaller	1996
	6	5	13	1995	more	smaller	1990s
	Total	**35**	**22**				
Ravn	**4**	20	15	1996	less	same	1996
River	**5**	7	12	1994	less	larger	1994
	6	10	15	1993	less	smaller	1990s
	7	13	10	1980	variable	same	any year
	8	3	11	1996	more/less	same	any year
	9	4	11	1996	less	same	any year
	10	12	12	1989	less	smaller	1989
	Total	**57**	**74**				
1997/98							
Asta	**2**	12	4	1997	same	smaller	1997
Lake	**3**	3	15	1997	more	same	1997
	4	10	5	1992	less	larger	1992
	5	3	1	1997	same	same	N/A
	6	2	2	1996	more	smaller	1995
	7	3	1	1996	more	same	1995
	9	4	1	1995	same	smaller	1995
	Total	**37**	**29**				
Lailor	**1**	15	15	1997	more	larger	1997
Lakes	**2**	20	20	1997	more	smaller	1997
	3	25	20	1997	same	same	N/A
	6	1	15	1997	more	same	1997
	8	7	7	1996	same	same	N/A
	9	20	20	1997	more	smaller	1997
	Total	**88**	**97**				
Kakaluk	**1**	12	5	1997	same	larger	1996
Lake/River	**3**	3	13	1997	more	same	1997

cont'd.

Table 40. Cont'd.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
Kakaluk Lake/River	**4**	7	3	1997	more	smaller	1997
	5	15	3	1997	same	same	N/A
	7	2	2	1996	more	smaller	1995
	8	9	4	1997	same	same	N/A
	Total	**48**	**30**				
Ravn River	**5**	8	2	1991	more/less	smaller	yearly
	7	3	2	1993	same	same	N/A
	8	14	2	1993	same	same	N/A
	9	6	3	1994	more	same	no ans.
	Total	**31**	**9**				

N/A = not applicable
no ans. = no answer

Table 41. Reasons for changes in the fisheries quoted from the local knowledge surveys, Igloolik, 1995/96, 1996/97 and 1997/98. *

1995/96

1 Fished less this year than in recent years. "Smaller in Lailor, old fish are fished by [Igloolik's] people, now young one are in the lake."
2 Fished same amount this year as in recent years. "Maybe cycle of year, fish life."
3 Fished same amount this year as in recent years. "Different years, sometime more or less. Natural cycle of life of fish."
4 Fished same amount this year as in recent years. "No changes. Hard to tell depends on how you fishing or fishing net size."

1996/97

1 Fished same amount this year as in recent years. "No changes [in the population]."
2 Fished less this year than in recent years. "No changes but fish go to other lake, that makes lot [difference]."
3 Fished same amount this year as in recent years. "Not much [change]. If people more fishing than it will be more fish."
4 Fished less this year than in recent years. " No [changes]. Ravn River in 1996 less fish; in that year not enough rain [then] not much past on to Ravn River from other lakes."
5 Fished more this year than in recent years. "Population is higher now days. Just natures works."
6 Fished less this year than in recent years. "No changes. Just part of earth."
7 Fished same amount this year as in recent years. "If you [do] more fishing [the there] will be more fish. How you do. How you use of fishes."
8 Fished same amount this year as in recent years. "No [changes] but more fishing and less fishing makes changes. Ravn River has many lakes so fish move to other lake for year after year."
9 Fished more this year than in recent years. "No [changes]. Depend on the years by."
10 Fished less this year than in recent years. "No [changes]. It is just depend on the season."

1997/98

1 Fished less this year than in recent years. "[Seem] to be more fish. Recent years we use lot more fishing nets, than it same to be more fish."
2 Fished more this year than in recent years. "Lot more fish in 1997. Depend on people fight over fish than it will be less fish."
3 Fished same amount this year as in recent years. "Yes, sometime more and sometime less. Depend on years."
4 Fished less this year than in recent years. "More fish. Less commercial fishing than more fish will be."
5 Fished less this year than in recent years. "No changes of population. Some lakes more fish and less yearly depend on summer condition."
6 Fished less this year than in recent years. "No changes. Some change but don't know why."
7 Fished more this year than in recent years. "Some lakes more fish than years ago. People more fishing than faster growing fish."
8 Fished less this year than in recent years. "No changes. No common."
9 Fished more this year than in recent years. "More fish in recent years. Recent years people are more catching fish by fishing nets therefore we have now healthier fish than same to be more fish around."

* Includes the answers to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 37).

Table 42. Results of local knowledge surveys, Hall Beach, 1995/96 and 1998/99.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
1995/96							
Hall (Tasiujaq) Lake	1	all year	10	1995	same	same	no ans.
	2	28	2	1994	same	same	don't know
	3	21	5	1992	more	same	no ans.
	4	10	30	1995	same	same	N/A
	6	24	2	1995	same	same	N/A
	7	20	4	1995	same	variable	no ans.
	8	20	3	1995	same	same	didn't change
	9	90	7	1994	more	same	didn't change
	10	8-9 mons	12	1995	more	same	1995
	Total		**75**				
Takiraq Lake/River	1	7	3	1957	more	same	no ans.
	2	7	3	1950s	more	same	don't know
	3	14	4	1950s	more	same	no ans.
	4	10	30	1995	same	same	N/A
	5	7	1	1950s	fewer	same	didn't change
	6	14	1	1987	more	same	didn't change
	7	7	1	1959	more	same	didn't change
	8	1	1	1984	more	same	didn't change
	9	30	1	1975	more	same	didn't change
	10	7	1	1962	more	larger	don't know
	Total	**104**	**46**				
Ussuajuq Lake/River	1	30	2	1959	more	same	no ans.
	3	7	2	1950s	more	same	no ans.
	4	7	3	1987	same	same	N/A
	5	7	1	1973	same	same	N/A
	7	7	1	1958	more	same	didn't change
	8	1	1	1972	more	same	didn't change
	10	7	1	1960	more	larger	don't know
	Total	**66**	**11**				
Ajuagutalik Lake/River	2	7	8	1970s	more	same	don't know
	5	1	1	1987	same	larger	didn't change
	6	7	1	1994	same	same	N/A
	9	14	2	1978	same	same	N/A
	Total	**29**	**12**				

cont'd.

Table 42. Cont'd.

	Fisher Number	No. Days Fished	No. Years Fished	Year Last Fished	No. of Fish	Size of Fish	Year of Change
1997/98							
Hall (Tasiujaq)	**1**	7 mons	20	1998	no ans.	no ans.	no ans.
Lake/River	**2**	5 mons	5	1997	same	same	N/A
	3	3 mons	15	1997	same	same	more fish
	4	2 mons	12	1998	same	same	N/A
	5	2 mons	?	1997	more	larger	less
	7	5 mons	?	1998	more	larger	no ans.
Ajuagutalik	**5**	lots	?	1997	more	larger	same
Lake/River	**7**	3 mons	?	1997	more	larger	don't know
Nuqsarnaarjuk	**7**	2 mons	11	1997	more	same	don't know
Lake/River	**6**	1 mon	6	1998	fewer	smaller	no change
Kingatuaq *	**1**	no ans.	no ans.	no ans.	less	smaller	no change
Lake/River							
Alarnarjuq	**1**	no ans.	no ans.	no ans.	more	larger	no change
Lake/River							
Tikiraq	**1**	no ans.	no ans.	no ans.	fewer	larger	no change
Lake/River							
Ikarruq	**3**	no ans.	no ans.	no ans.	same	same	yes, more fish
Lake/River							
Kaviallak	**4**	no ans.	no ans.	no ans.	more	same	no change
Lake/River	**5**	lots	?	1998	more	same	no change
Simutaq *	**6**	5 mons	4	1998	same		don't know
Lake/River							
Aulattivik *	**6**	3	3	1998	same		don't know
Lake/River							

no ans. = no answer
N/A = not applicable
? = "don't know" or "don't remember"
* = specific location in Hall (Tasiujaq) Lake

Table 43. Reasons for changes in the fisheries quoted from the local knowledge survey, Hall Beach, 1995/96 and 1998/99. *

1995/96

1 Fished less this year than in recent years. More [fish] because no one goes there [Tikiraq]."
2 Fished less this year than in recent years. "There are more fish. Don't know why.
3 Fished less this year that in recent years. "There are more fish. Don't know why. Because more people don't go fish[ing] there."
4 Fished more this year than in recent years. "More fish this year. Don't know why."
5 Fished more this year than in recent years. "There are more fish this year. When more people don't waste what they catch there's usually more fish."
6 Fished less this year than in recent years. "No change. More and more starting to go fishing."
7 Fished more this year than in recent years. "There are lots more fish this year. When you don't waste what you catch more fish will appear."
8 "There are more fish this year. More people are starting to have more interest in fishing."
9 Fished more this year than in recent years. "[There are] no changes.
10 Fished the same amount this year as in recent years. "No changes, looks like still the same this year. Don't know [why changes are occurring."

1998/99

1 "Stopped going fishing this year. I don't know [if there are any changes in populations.] I might start going fishing this year if my ski-doo is fixed."
2 Fished same amount this year as in recent years. "Don't know [if there were any changes]."
3 Fished less this year that in recent years. "Don't know if there were any changes."
4 Fished less this year than in recent years. "Less fish this year in any fishing spot. Weather changes occurred."
5 Fished less this year than in recent years. "Don't know [if there were any changes."
6 Fished less this year than in recent years. "More fish has more red meat [because of] lack of food and water."
7 Fished less this year than in recent years. "Don't know [if there were any changes]."

* Includes the answers to the question regarding the amount of fishing done in the year of the interview and the fisher number (from Table 38).

ᓱᕋᑎᐊᓂ ᓄᓇᕗᒻᒥᑦ : _____
Location of net:

ᖃᑦᑎᐅᑉ / ᑕᑯᓂᖓ ᓄᓇᕗᑦ (ᓄᓇᕗᑦ) :
Number / length of net(s):

_____

ᓄᓇᕗᒻᒪᑦ ᐳᑐᕐᒥ ᕗᕐᒥᓂᖓ :
Mesh size of net: _____

ᐅᓐᓄᖓ ᕗᒻᒪᓗ ᖃᖓ ᖃᐅᔨᓴᓂᒃᑭᕐᒥᑦ ᓄᓇᕗᑎᑦ :
Date and time net(s) set or last checked:

ᑕᒃᑭᖅ ᐅᓐᓄᖓ ᖃᖓ (ᐅᓐᓚᒃᑯᑦ ᐅᑦᑕᓄᑦ ᐅᓐᓄᓴᒃᑯᑦ)

month day time (am or pm)

_____ _____ _____

ᐅᓐᓄᖓ ᕗᒻᒪᓗ ᖃᖓ ᐃᖃᓗᐃᔭᐃᕕᒥᓂᑦ :
Date and time fish removed from net:

ᑕᒃᑭᖅ ᐅᓐᓄᖓ ᖃᖓ (ᐅᓐᓚᒃᑯᑦ ᐅᑦᑕᓄᑦ ᐅᓐᓄᓴᒃᑯᑦ)

month day time (am or pm)

_____ _____ _____

ᖃᑦᑎᐅᑉ ᐃᖃᓗᑦᑕᑎᑦ : _____
Number of fish caught

Appendix 1. The questionaire used to collect catch and effort data.

ᐃᑉᓄᐃᑦ ᐃᓕᑦᑯᓯᓇᒐᒥᒻᔪᑦ ᖃᐅᔨᒪᔭᕐᓄᑦ ᐊᐱᖅᓱᑕᐅᑦ
LOCAL KNOWLEDGE SURVEY

1. ᓇᒻᒥᓕ ᐃᖃᓗᒍᐅᖃᑕᖅᐱᑦ (ᓇᓗᓇᐃᑯᑕᒻᒥᒻ ᐃᓕᓯᓗᑎᑦ ᓄᓇᕗᑦᑐᒥ)

Where do you usually fish ? (mark locations on map)

ᓇᑉᓂ **Where**	ᐅᑉᓗᓂᒻ ᖃᕐᓂᒻ ᐃᖃᓗᒍᐅᖅᐱᑦ ᐅᑭᐅᒻᒥ ᐊᑕᐅᓯᕐᒥ **Number of days fished per year**	ᖃᕐᓂᒻ ᐅᑭᐅᓂᒻ ᐃᖃᓗᒍᐅᓕᖅᐱᑦ **Number of years fished**	ᐅᑭᐅᖅ ᑭᖑᓕᑦᑐᖅ ᐃᖃᓗᒍᐅᖅᑕᐃᑦ ᑕᐃᓗᒍ **Year last fished**
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

2. ᖃᐅᔨᓚᐅᖅᐱᑦ ᐊᑦᓚᖑᖅᑐᒥᒻ ᑕᒻᒪᑯᓇᓂ ᐃᖃᓗᖃᑕᖅᑕᑉᓂᒻ

Have you noticed any changes in the fish you catch?

ᓇᑉᓂ **Where**	ᐃᖃᓗᐃᑦ ᐊᒥᓱᓂᕐᒥ (ᐊᒥᓱᓂᖅᓴᐃᑦ, ᐃᑭᓂᖅᓴᐅᔪᑦ, ᐊᔾᔨᒌᑦᑐᕐᓴ) **Number of fish (more, less or the same)**	ᐃᖃᓗᐃᒻ ᐊᕐᒥᓂᕐᒥ (ᐃᕐᒥᓂᖅᓴᐅᔪᑦ, ᒥᑭᓂᖅᓴᐅᔪᑦ, ᐊᔾᔨᒌᑦ) **Size of fish (larger, smaller or the same)**	ᐅᑭᐅᕐᒪ ᑕᐃᓗᒍ ᐊᑦᓚᖑᕐᓴᐅᔪᖅ **Year that changes occurred**
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

3. ᐃᖃᓗᒍᐅᓗᐊᑉᓂᖅᓴᐅᑎᑦ ᐊᒻᒪᓗᓂᑦ ᐃᖃᓗᒍᐅᓗᐊᕐᒥᓂᖅᓴᐅᑎᑦ ᐊᒻᒪᓗᓂᑦ ᐊᔾᔨᐊᓂᒻ ᐃᖃᓗᒍᐅᖃᑕᖅᑕᑎᑦ ᑕᒻᒪᓂ ᐅᑭᐅᒻᒥ ᐅᑭᐅᑦ ᖃᕐᒥᖅᑐᑦ ᑕᐅᑐᒻᓱᒥᑦ

Did you fish more or less or the same this year than in recent years?

_____

4. ᖃᐅᔨᑎᑦ ᑕᑯᐊᑦ ᐃᖃᓗᐃᑦ ᐊᑦᓚᖑᑎᒥᔭᕐᓂᒻ ᐊᒥᓱᓂᕐᒥᑕ

Have you noticed any other changes in the fish populations?

_____

5. ᖃᐅᔨᒍᑎᑦ ᐊᑦᓚᖑᑎᒥᔭᐅᔪᒥᒻ ᐃᒻᓱᒪᑎᑦ ᓱᕐᒪᓕᒍᖅ ᐊᑦᖑᖅᑐᑦ

If you have noticed changes why do you think these changes are occurring?

_____

Appendix 2. The questionaire used for the local knowledge survey.

Appendix 3. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Ikpikittuarjuk Lake (Arctic Bay), September 1998.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	% FEMALE
400-449	-	-	-	-	-	6	425	1117	240	1.45	6	425	1117	240	1.45	-
450-499	4	458	1375	359	1.45	24	466	1354	204	1.34	28	465	1357	223	1.36	86
500-549	9	508	1622	164	1.24	18	519	1706	239	1.22	28	515	1679	213	1.23	67
550-599	6	570	2450	266	1.32	14	564	2314	203	1.29	20	566	2355	226	1.30	70
600-649	8	620	2700	555	1.13	5	610	2620	536	1.15	13	616	2669	527	1.14	38
650-699	1	650	3400	-	1.24	-	-	-	-	-	1	650	3400	-	1.24	-
700-749	3	710	4500	361	1.26	-	-	-	-	-	3	710	4500	361	1.26	-
750-799	1	770	5500	-	1.20	-	-	-	-	-	1	770	5500	-	1.20	-
TOTAL	32					67					100					
MEAN		573	2463	1099	1.25		508	1722	527	1.29		529	1959	827	1.28	68

Appendix 4. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Ikpikittuarjuk Lake (Arctic Bay), September 1998.

AGE (YR)	MALES							FEMALES							COMBINED							
	N	%	LENGTH (MM) MEAN	LENGTH (MM) SD	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	%	LENGTH (MM) MEAN	LENGTH (MM) SD	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	%	LENGTH (MM) MEAN	LENGTH (MM) SD	WEIGHT (G) MEAN	WEIGHT (G) SD	K	% FEMALE
8	2	7	500	0	1500	0	1.20	4	6	485	58	1525	685	1.27	6	6	490	46	1517	531	1.25	67
9	3	11	473	32	1367	306	1.27	22	34	474	38	1427	290	1.34	25	27	474	36	1420	286	1.33	88
10	5	18	556	58	2120	683	1.20	16	25	537	56	1919	573	1.22	21	22	541	56	1967	589	1.21	76
11	12	43	566	84	2358	1121	1.27	15	23	512	51	1827	543	1.35	28	30	535	70	2050	860	1.31	56
12	4	14	633	62	3175	873	1.23	5	8	552	44	2080	606	1.21	9	10	588	65	2567	896	1.22	56
13	-	-	-	-	-	-	-	3	5	553	29	2167	351	1.27	3	3	553	29	2167	351	1.27	-
15	2	7	670	85	3500	1273	1.14	-	-	-	-	-	-	-	2	2	670	85	500	1273	1.14	-
TOTAL	28							65							94							70
MEAN			566	83	2346	1050	1.24			509	55	1731	531	1.29			526	69	1914	771	1.28	
MEAN AGE			10.8							10.1							10.3					

Appendix 5. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Qakkiaq Lake (Arctic Bay), December 1998. *

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	FEMALES N	FEMALES LENGTH (MM) MEAN	COMBINED N	COMBINED LENGTH (MM) MEAN	% FEMALE
300-349	1	330	1	310	2	320	-
350-399	8	366	-	-	8	366	86
400-449	8	-	5	525	13	420	-
450-499	20	479	6	477	26	478	86
500-549	19	515	8	515	27	515	67
550-599	1	560	1	570	2	565	70
600-649	5	618	4	613	10	614	38
650-699	2	660	-	-	2	660	-
TOTAL	64		25		90		
MEAN		484		496		489	

* weights not used.

Appendix 6. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Qakkiaq Lake (Arctic Bay), December 1998. *

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	% FEMALE
6	1	2	410	-	-	-	-	-	1	1	-	-	0
7	3	6	350	17	-	-	-	-	3	4	-	-	0
8	1	2	440	-	1	5	480	-	2	3	-	-	50
9	32	60	471	60	12	55	471	45	44	59	471	57	27
10	14	26	518	64	6	27	515	58	20	27	518	60	30
11	2	6	585	-	1	5	570	-	3	4	580	49	33
13	-	-	-	-	2	9	620	-	2	3	620	-	100
TOTAL	53				22				75				
MEAN			479	73			501	64			486	71	
MEAN AGE		9.2				9.7				9.3			

* weights not used.

Appendix 7. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Ikaluit River (Pond Inlet), February 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
450-499	-	-	-	-	-	2	479	1080	42	0.99	2	479	1080	42	0.99	-
500-549	2	522	1264	34	0.90	2	527	1456	57	1.00	4	525	1360	117	0.95	50
550-599	4	582	1727	199	0.88	4	580	2069	197	1.06	8	581	1898	259	0.97	50
600-649	20	632	2535	258	1.00	12	623	2386	183	0.99	32	628	2479	241	1.00	38
650-699	29	670	2940	437	0.98	-	-	-	-	-	29	670	2940	437	0.98	-
700-749	21	722	3701	444	0.98	-	-	-	-	-	21	722	3701	444	0.98	-
750-799	4	754	3971	685	0.93	-	-	-	-	-	4	754	3971	685	0.93	-
TOTAL	80					20					100					
MEAN		670	2987	738	0.98		591	2099	480	1.00		654	2810	779	0.98	20

Appendix 8. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Ikaluit River (Pond Inlet), February 1996.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
9	1	1	575	-	1934	-	1.02	-	-	-	-	-	-	-	1	1	575	-	1934	-	1.02	-
10	-	-	-	-	-	-	-	1	6	487	-	1136	-	0.99	1	1	487	-	1138	-	0.99	-
12	4	5	631	22	2723	442	1.08	8	44	586	57	2233	558	1.09	12	13	601	52	2396	557	1.09	67
13	11	15	661	66	3327	947	1.12	4	22	580	49	2222	50	1.14	15	16	639	71	3033	969	1.12	27
14	26	35	667	46	3224	725	1.07	3	17	616	17	2579	98	1.10	29	31	662	47	3158	714	1.07	10
15	25	33	692	43	3682	684	1.10	1	6	611	-	2520	-	1.10	26	28	689	45	3637	708	1.10	4
16	5	7	680	42	3444	780	1.08	1	6	574	-	2328	-	1.23	6	6	662	57	3258	833	1.11	17
17	1	1	632	-	2634	-	1.04	-	-	-	-	-	-	-	1	1	632	-	2634	-	1.04	-
18	1	1	643	-	2750	-	1.03	-	-	-	-	-	-	-	1	1	643	-	2750	-	1.03	-
19	1	1	539	-	1442	-	0.92	-	-	-	-	-	-	-	1	1	539	-	1442	-	0.92	-
TOTAL	75							18							93							
MEAN			670	52	3325	802	1.09			585	51	2249	512	1.11			653	62	3116	865	1.09	19
MEAN AGE	14.3							12.8							14.0							

Appendix 9. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Ikaluit Lake (Pond Inlet), November 1996.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
550-599	7	584	1926	174	0.97	14	586	1871	138	0.93	21	585	1889	149	0.94	67
600-649	21	628	2294	264	0.92	16	625	2215	238	0.91	37	627	2260	253	0.92	43
650-699	18	676	2980	327	0.96	7	659	2645	367	0.92	25	671	2886	365	0.95	28
700-749	15	721	3316	493	0.89	-	-	-	-	-	15	721	3316	493	0.89	-
750-799	1	770	4650	-	1.02	-	-	-	-	-	1	770	4650	-	1.02	-
TOTAL	62					37					99					
MEAN		662	2737	644	0.93		617	2166	364	0.92		645	2524	619	0.93	37

Appendix 10. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gillnets, Ikaluit Lake (Pond Inlet), November 1996.

	MALES							FEMALES							COMBINED							
AGE			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
11	3	5	602	34	2223	148	1.02	1	4	656	-	2956	-	1.05	4	5	616	39	2406	386	1.03	25
12	3	5	616	46	2612	684	1.10	1	4	600	-	2596	-	1.20	4	5	612	38	2608	559	1.12	25
13	10	17	639	33	2755	523	1.05	7	29	593	42	2361	479	1.12	17	20	620	43	2593	529	1.08	41
14	15	25	668	49	3212	658	1.07	7	29	621	24	2457	324	1.02	22	27	653	48	2971	670	1.05	32
15	16	27	671	50	3336	870	1.08	7	29	624	26	2632	269	1.08	23	28	657	49	3122	803	1.08	30
16	9	15	677	46	3245	703	1.03	-	-	-	-	-	-	-	9	11	677	46	3245	703	1.03	-
17	2	3	690	8	3493	43	1.07	-	-	-	-	-	-	-	2	2	690	8	3493	43	1.07	-
19	1	2	735	-	3998	-	1.01	1	4	657	-	3080	-	1.09	2	2	696	55	3539	649	1.05	50
TOTAL	59							24							83							
MEAN			661	49	3115	736	1.06			616	34	2533	375	1.08			648	49	2947	702	1.07	29
MEAN AGE			14.3							14.0							14.2					

Appendix 11. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Ikaluit Lake (Pond Inlet), November 1997.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
500-549	-	-	-	-	-	1	545	1520	-	0.94	1	545	1520	-	0.94	-
550-599	6	587	2040	97	1.01	5	582	1921	95	0.98	11	585	1986	110	0.99	45
600-649	25	630	2466	223	0.98	22	625	2328	149	0.95	48	628	2402	200	0.97	47
650-699	28	676	3107	236	1.01	5	665	2748	208	0.94	33	674	3053	264	1.00	15
700-749	9	728	3581	333	0.93	-	-	-	-	-	9	728	3581	333	0.93	-
750-799	2	782	4961	776	1.04	-	-	-	-	-	2	782	4961	776	1.04	-
TOTAL	70					33					104					
MEAN		662	2901	628	0.99		622	2306	307	0.95		649	2707	610	0.98	32

Appendix 12. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Ikaluit Lake (Pond Inlet), November 1997.

	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
AGE (YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
11	1	2	604	-	2178	-	0.99	-	-	-	-	-	-	-	1	1	604	-	2178	-	0.99	-
12	6	9	627	30	2742	441	1.10	2	8	643	7	2781	126	1.05	8	9	631	26	2752	376	1.09	25
13	11	17	627	36	2767	455	1.12	5	20	624	32	2867	598	1.17	16	18	626	34	2799	486	1.13	31
14	13	20	655	31	3198	531	1.13	10	40	624	23	2679	223	1.10	23	25	642	31	2972	493	1.12	43
15	15	23	687	45	3740	784	1.15	5	20	596	40	2402	571	1.12	20	22	664	59	3405	935	1.14	25
16	10	15	681	56	3471	890	1.08	2	8	646	28	2777	349	1.03	12	13	675	53	3356	856	1.07	17
17	6	9	672	35	3241	410	1.07	-	-	-	-	-	-	-	6	7	672	35	3241	410	1.07	-
18	4	6	686	41	3737	743	1.15	1	4	635	-	2752	-	1.07	5	5	676	42	3540	780	1.13	20
TOTAL	66							25							91							
MEAN			662	46	3270	733	1.11			622	30	2680	404	1.11			651	46	3108	709	1.11	27
MEAN AGE	14.7							14.2							14.5							

Appendix 13. Biological data by length interval for Arctic charr sampled from 4.5 and 5.5 inch mesh gill nets, Tugaat Lake (Pond Inlet), February 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
400-449	2	437	806	40	0.97	-	-	-	-	-	2	437	806	40	0.97	-
450-499	2	484	1104	82	0.98	3	485	1583	605	1.39	5	484	1391	504	1.22	60
500-549	3	524	1567	154	1.09	2	530	1619	372	1.08	5	526	1588	217	1.09	40
550-599	7	578	2120	212	1.09	14	584	2134	247	1.07	21	582	2129	230	1.08	67
600-649	15	624	2544	341	1.05	17	620	2639	270	1.11	32	621	2595	304	1.08	53
650-699	13	681	3388	413	1.07	8	669	3156	387	1.05	21	676	3299	410	1.06	38
700-749	8	719	4040	301	1.09	1	704	3670	-	1.05	9	718	3999	308	1.08	11
750-799	4	768	4829	90	1.07	-	-	-	-	-	4	768	4829	90	1.07	-
800-849	1	802	6600	-	1.28	-	-	-	-	-	1	802	6600	-	1.28	-
TOTAL	55					45					100					
MEAN		642	2978	1164	1.07		606	2481	583	1.10		626	2754	975	1.08	45

Appendix 14. Biological data by age class for Arctic charr sampled from 4.5 and 5.5 inch mesh gill nets, Tugaat Lake (Pond Inlet), February 1996.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
7	1	2	425	-	858	-	1.12	-	-	-	-	-	-	-	1	1	425	-	858	-	1.12	-
8	4	8	615	126	2884	1806	1.11	1	2	614	-	3136	-	1.35	5	5	615	109	2934	1568	1.16	20
9	3	6	591	75	2553	1098	1.18	2	4	519	69	1696	628	1.19	5	5	562	74	2210	960	1.18	40
10	3	6	594	20	2605	368	1.24	8	18	570	48	2416	493	1.33	11	12	576	43	2467	453	1.30	73
11	11	22	651	87	3539	1611	1.21	10	22	606	36	2709	577	1.20	21	22	630	70	3144	1276	1.21	48
12	14	29	658	47	3320	788	1.15	19	42	623	44	2921	595	1.19	33	35	638	48	3090	701	1.17	58
13	8	16	707	48	4179	918	1.17	3	7	636	60	3009	1025	1.14	11	12	687	58	3859	1048	1.16	27
14	3	6	611	158	2873	2179	1.07	2	4	625	55	2769	720	1.12	5	5	617	116	2831	1583	1.09	40
15	1	2	687	-	3090	-	0.95	-	-	-	-	-	-	-	1	1	687	-	3090	-	0.95	-
18	1	2	611	-	2390	-	1.05	-	-	-	-	-	-	-	1	1	611	-	2390	-	1.05	-
TOTAL	49							45							94							
MEAN			645	84	3282	1290	1.16			606	51	2733	641	1.21			626	72	3019	1063	1.18	48
MEAN AGE			11.5							11.4							11.4					

Appendix 15. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Coutts Inlet Lake (Pond Inlet), February 1997.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
450-499	1	474	888	-	0.83	1	482	1042	-	0.93	2	478	965	109	0.88	50
500-549	3	530	1351	67	0.91	4	531	1343	191	0.90	7	530	1347	141	0.90	57
550-599	8	573	1678	170	0.89	4	571	1574	255	0.84	12	572	1643	197	0.88	33
600-649	25	628	2293	249	0.92	3	621	2205	56	0.92	28	628	2284	237	0.92	11
650-699	38	672	2717	236	0.90	1	660	2584	-	0.90	39	672	2714	234	0.90	3
700-749	10	716	3308	365	0.90	-	-	-	-	-	10	716	3308	365	0.90	-
TOTAL	85					13					98					
MEAN		648	2494	560	0.90		570	1685	488	0.89		637	2387	614	0.90	13

Appendix 16. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Coutts Inlet Lake (Pond Inlet), February 1997.

	MALES							FEMALES							COMBINED							
AGE			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
11	1	1	588	-	1828	-	0.90	1	11	569	-	2126	-	1.15	2	2	579	13	1977	211	1.03	50
12	1	1	474	-	1000	-	0.94	1	11	530	-	1768	-	1.19	2	2	502	40	1384	543	1.06	50
13	9	12	597	34	2244	440	1.04	2	22	581	57	1922	786	0.95	11	13	594	36	2185	483	1.03	18
14	17	22	617	45	2366	474	1.00	2	22	515	47	1414	339	1.03	19	22	606	54	2266	544	1.01	11
15	16	21	657	22	2967	323	1.05	-	-	-	-	-	-	-	16	19	657	22	2967	323	1.05	-
16	13	17	657	39	2917	531	1.02	1	11	622	-	2584	-	1.07	14	16	655	39	2893	518	1.02	7
17	8	11	678	21	3160	446	1.01	1	11	550	-	1500	-	0.90	9	11	664	47	2976	693	1.00	11
18	9	12	681	34	3014	526	0.95	-	-	-	-	-	-	-	9	11	681	34	3014	526	0.95	-
19	-	-	-	-	-	-	-	1	11	568	-	1668	-	0.91	1	1	568	-	1668	-	0.91	-
20	1	1	707	-	3276	-	0.93	-	-	-	-	-	-	-	1	1	707	-	3276	-	0.93	-
21	1	1	701	-	3446	-	1.00	-	-	-	-	-	-	-	1	1	701	-	3446	-	1.00	-
TOTAL	76							9							85							
MEAN			644	48	2734	592	1.01			559	44	1813	486	1.02			635	55	2636	645	1.01	11
MEAN AGE			15.3							14.3							15.2					

Appendix 17. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Coutts Inlet Lake (Pond Inlet), March 1998.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
500-549	-	-	-	-	-	2	543	1617	216	1.01	2	543	1617	216	1.01	-
550-599	2	579	1974	88	1.02	2	596	1955	137	0.92	4	587	1965	95	0.97	50
600-649	20	628	2340	199	0.95	4	624	2223	152	0.92	24	627	2321	194	0.94	17
650-699	11	676	2854	191	0.92	-	-	-	-	-	11	676	2854	191	0.92	-
700-749	8	711	3169	255	0.88	-	-	-	-	-	8	711	3169	255	0.88	-
750-799	1	781	4240	-	0.89	-	-	-	-	-	1	781	4240	-	0.89	-
TOTAL	42					8					50					
MEAN		658	2660	482	0.93		597	2004	300	0.94		648	2555	516	0.93	16

Appendix 18. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Coutts Inlet Lake (Pond Inlet), March 1998.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
12	1	3	680	-	3230	-	1.03	-	-	-	-	-	-	-	1	2	680	-	3230	-	1.03	-
13	2	5	608	32	2455	426	1.09	2	40	605	10	2541	216	1.15	4	10	606	19	2498	280	1.12	50
14	5	14	637	33	2948	360	1.14	1	20	541	-	1994	-	1.26	6	14	621	49	2789	505	1.16	17
15	10	27	634	13	2629	229	1.03	1	20	594	-	2122	-	1.01	11	26	630	17	2583	266	1.03	9
16	6	16	666	32	3095	378	1.05	-	-	-	-	-	-	-	6	14	666	32	3095	378	1.05	-
17	7	19	707	41	3747	604	1.05	-	-	-	-	-	-	-	7	17	707	41	3747	604	1.05	-
18	4	11	676	24	3352	234	1.09	-	-	-	-	-	-	-	4	10	676	24	3352	234	1.09	-
19	2	5	721	8	3663	576	0.98	1	20	620	-	2370	-	0.99	3	7	687	59	3232	850	0.98	33
TOTAL	37							5							42							
MEAN			663	42	3100	567	1.06			593	31	2314	270	1.11			654	46	3006	597	1.06	12
MEAN AGE	15.8									14.8							15.6					

Appendix 19. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Tuniit Lake (Pond Inlet), January 1997.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
450-499	1	497	1842	-	1.50	-	-	-	-	-	1	497	1842	-	1.50	-
500-549	3	528	1325	47	0.90	5	517	1228	38	0.89	8	521	1265	63	0.90	63
550-599	29	582	1838	194	0.93	5	569	1639	222	0.89	34	580	1809	208	0.92	15
600-649	50	625	2208	216	0.90	-	-	-	-	-	50	625	2208	216	0.90	-
650-699	6	674	2687	392	0.89	-	-	-	-	-	6	674	2687	392	0.89	-
700-749	1	714	3854	-	1.06	-	-	-	-	-	1	714	3854	-	1.06	-
TOTAL	90					10					100					
MEAN		611	2105	392	0.92		543	1433	264	0.89		604	2038	431	0.92	10

Appendix 20. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Tuniit Lake (Pond Inlet), January 1997.

AGE	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
10	1	1	554	-	1612	-	0.95	-	-	-	-	-	-	-	1	1	554	-	1612	-	0.95	-
11	1	1	609	-	2476	-	1.10	-	-	-	-	-	-	-	1	1	609	-	2476	-	1.10	-
12	14	16	589	36	2176	386	1.06	3	33	517	18	1449	162	1.05	17	18	576	43	2048	454	1.05	18
13	18	21	602	28	2339	333	1.07	3	33	562	26	1686	187	0.95	21	22	596	31	2245	391	1.05	14
14	23	27	610	41	2299	412	1.02	2	22	569	26	1994	453	1.08	25	27	607	41	2275	414	1.02	8
15	23	27	635	29	2674	525	1.04	-	-	-	-	-	-	-	23	24	635	29	2674	525	1.04	-
16	5	6	618	22	2308	218	0.98	-	-	-	-	-	-	-	5	5	618	22	2308	218	0.98	-
17	-	-	-	-	-	-	-	1	11	555	-	1866	-	1.09	1	1	555	-	1866	-	1.09	-
TOTAL	85							9							94							
MEAN			611	37	2383	452	1.04			548	30	1695	299	1.02			605	41	2317	484	1.04	10
MEAN AGE	13.8									13.3							13.7					

Appendix 21. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Tuniit Lake (Pond Inlet), February 1998.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
450-499	1	482	1094	-	0.98	-	-	-	-	-	1	482	1094	-	0.98	-
500-549	3	531	1441	201	0.96	-	-	-	-	-	3	531	1441	201	0.96	-
550-599	19	582	1948	175	0.98	15	580	1846	202	0.94	34	581	1903	191	0.97	44
600-649	34	622	2388	436	0.99	10	621	2242	230	0.93	44	621	2355	401	0.98	23
650-699	11	666	2671	184	0.90	1	664	2630	-	0.90	12	666	2668	176	0.90	8
700-749	4	709	3499	199	0.98	-	-	-	-	-	4	709	3499	199	0.98	-
750-799	1	755	4406	-	1.02	-	-	-	-	-	1	755	4406	-	1.02	-
TOTAL	73					26					99					
MEAN		619	2348	591	0.98		599	2028	308	0.94		614	2264	549	0.97	26

Appendix 22. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Tuniit Lake (Pond Inlet), February 1998.

AGE	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
12	9	14	574	48	2220	576	1.14	-	-	-	-	-	-	-	9	12	574	48	2220	576	1.14	-
13	13	21	587	30	2245	334	1.11	5	38	613	21	2595	312	1.13	18	24	594	30	2342	357	1.11	28
14	16	25	623	35	2659	458	1.09	1	8	593	-	2534	-	1.22	17	22	621	35	2651	444	1.10	6
15	16	25	633	31	2801	587	1.10	4	31	588	39	2261	307	1.11	20	26	624	37	2693	580	1.10	20
16	7	11	646	37	3151	873	1.16	3	23	585	35	2210	338	1.10	10	13	628	45	2869	861	1.14	30
17	2	3	698	81	3746	1731	1.06	-	-	-	-	-	-	-	2	3	698	81	3746	1731	1.06	-
TOTAL	63							13							76							
MEAN			616	46	2636	674	1.11			597	30	2399	328	1.12			613	44	2596	633	1.11	17
MEAN AGE	14.1									14.4							14.1					

Appendix 23. Biological data by length interval from Arctic charr sampled from 5.5 inch mesh gill nets, Kuuktannaq River, (Clyde River), August 1995.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					%
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
250-299	10	275	245	98	1.15	3	283	217	29	0.95	13	277	238	87	1.11	23
300-349	-	-	-	-	-	2	330	450	71	1.25	2	330	450	71	1.25	-
350-399	5	376	590	82	1.12	1	370	600	-	1.18	6	375	592	74	1.13	17
400-449	7	423	936	163	1.23	11	427	936	112	1.20	18	425	936	129	1.21	61
450-499	3	450	933	58	1.02	3	462	1117	115	1.13	6	456	1025	129	1.08	50
500-549	1	530	2000	-	1.34	-	-	-	-	-	1	530	2000	-	1.34	-
550-599	-	-	-	-	-	1	580	2250	-	1.15	1	580	2250	-	1.15	-
600-649	2	625	2750	354	1.12	3	622	2633	236	1.10	5	623	2680	251	1.11	60
650-699	4	675	3200	424	1.04	-	-	-	-	-	4	675	3200	424	1.04	-
700-749	3	730	4050	278	1.04	-	-	-	-	-	3	730	4050	278	1.04	-
TOTAL	35					24					59					
MEAN		446	1349	1304	1.13		434	1081	733	1.15		441	1240	1108	1.14	41

Appendix 24. Biological data by length interval from Arctic charr sampled from angling, Kuuktannaq River, (Clyde River), August 1995.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					%
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
400-449	6	418	808	111	1.11	6	418	783	133	1.07	12	418	796	118	1.09	50
450-499	3	462	1167	289	1.17	6	459	1067	194	1.10	9	460	1100	217	1.12	67
500-549	1	510	1600	-	1.21	-	-	-	-	-	1	510	1600	-	1.21	-
600-649	-	-	-	-	-	1	610	2200	-	0.97	1	610	2200	-	0.97	-
TOTAL	10					13					23					
MEAN		440	995	315	1.14		452	1023	410	1.07		447	1011	364	1.10	57

Appendix 25. Biological data by length interval from Arctic charr sampled from trap net, Kukktannaq River (Clyde River), August 1995.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
200-249	1	240	150	-	1.09	-	-	-	-	-	1	240	150	-	1.09	-
300-349	5	322	430	67	1.28	1	310	400	-	1.34	6	320	425	61	1.29	17
350-399	1	360	550	-	1.18	-	-	-	-	-	1	360	550	-	1.18	-
400-449	2	405	800	71	1.20	5	420	880	144	1.18	7	416	857	127	1.19	71
450-499	2	455	1125	177	1.20	-	-	-	-	-	2	455	1125	177	1.20	-
500-549	1	510	1800	-	1.36	-	-	-	-	-	1	510	1800	-	1.36	-
TOTAL	12					6					18					
MEAN		370	708	461	1.24		402	800	235	1.21		381	739	394	1.23	33

Appendix 26. Biological data by age class from Arctic charr sampled from 5.5 inch mesh gill nets, Kuuktannaq River, (Clyde River), August 1995.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
5	-	-	-	-	-	-	-	1	6	290	-	250	-	1.03	1	3	290	-	250	-	1.03	-
6	1	5	270	-	150	-	0.76	2	12	280	0	200	0	0.91	3	8	277	6	183	29	0.86	67
7	2	9	275	7	250	71	1.19	-	-	-	-	-	-	-	2	5	275	7	250	71	1.19	-
8	4	18	355	79	475	301	1.00	-	-	-	-	-	-	-	4	10	355	79	475	301	1.00	-
9	1	5	360	-	600	-	1.29	1	6	430	-	1050	-	1.32	2	5	395	49	825	318	1.30	50
10	1	5	440	-	1000	-	1.17	4	24	420	12	875	126	1.18	5	13	424	13	900	122	1.18	80
11	3	14	503	206	1867	2151	1.09	5	29	413	48	840	253	1.15	8	21	447	125	1225	1281	1.13	63
12	5	23	440	57	1080	535	1.20	3	18	458	19	1117	115	1.16	8	21	447	45	1094	409	1.18	38
13	3	14	660	26	3067	58	1.07	-	-	-	-	-	-	-	3	8	660	26	3067	58	1.07	-
14	-	-	-	-	-	-	-	1	6	580	-	2250	-	1.15	1	3	580	-	2250	-	1.15	-
15	1	5	710	-	3800	-	1.06	-	-	-	-	-	-	-	1	3	710	-	3800	-	1.06	-
18	1	5	740	-	4000	-	0.99	-	-	-	-	-	-	-	1	3	740	-	4000	-	0.99	-
TOTAL	22							17							39							
MEAN			463	161	1461	1398	1.10			411	77	882	483	1.13			440	132	1209	1124	1.11	44
MEAN AGE			10.7							10.1							10.4					

Appendix 27. Biological data by age class from Arctic charr sampled from angling, Kuuktannaq River, (Clyde River), August 1995.

AGE (YR)	MALES N	MALES %	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
8	-	-	-	-	-	-	-	1	8	460	-	1200	-	1.23	1	5	460	-	1200	-	1.23	-
9	3	43	448	28	1117	340	1.21	-	-	-	-	-	-	-	3	16	448	28	1117	340	1.21	-
10	2	29	430	28	850	212	1.06	2	17	440	14	850	0	1.00	4	21	435	19	850	122	1.03	50
11	1	14	510	-	600	-	1.21	3	25	407	12	700	87	1.04	4	21	433	53	925	456	1.08	75
12	1	14	410	-	800	-	1.16	3	25	438	20	1000	250	1.17	4	21	431	22	950	227	1.17	75
13	-	-	-	-	-	-	-	1	8	480	-	1200	-	1.09	1	5	480	-	1200	-	1.09	-
17	-	-	-	-	-	-	-	1	8	610	-	2200	-	0.97	1	5	610	-	2200	-	0.97	-
19	-	-	-	-	-	-	-	1	8	450	-	800	-	0.88	1	5	450	-	800	-	0.88	-
TOTAL	7							12							19							
MEAN			446	37	1064	350	1.16			451	56	1017	428	1.07			449	49	1034	391	1.10	63
MEAN AGE			10.0							12.2							11.4					

Appendix 28. Biological data by age class from Arctic charr sampled from trap net, Kuuktannaq River, (Clyde River), August 1995.

AGE (YR)	MALES N	MALES %	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
6	1	9	240	-	150	-	1.09	-	-	-	-	-	-	-	1	6	240	-	150	-	1.09	-
7	1	9	320	-	400	-	1.22	-	-	-	-	-	-	-	1	6	320	-	400	-	1.22	-
8	3	27	370	69	750	433	1.38	1	20	310	-	400	-	1.34	4	25	355	64	663	394	1.37	25
9	1	9	330	-	400	-	1.11	-	-	-	-	-	-	-	1	6	330	-	400	-	1.11	-
10	1	9	400	-	750	-	1.17	2	40	425	21	875	247	1.12	3	19	417	21	833	189	1.14	67
11	3	27	390	108	900	786	1.28	-	-	-	-	-	-	-	3	19	390	108	900	786	1.28	-
12	-	-	-	-	-	-	-	1	20	410	-	800	-	1.16	1	6	410	-	800	-	1.16	-
13	1	9	410	-	850	-	1.23	1	20	410	-	850	-	1.23	2	13	410	0	850	0	1.23	50
TOTAL	11							5							16							
MEAN			362	75	682	473	1.26			396	50	760	238	1.20			373	69	706	407	1.24	31
MEAN AGE			9.3							10.6							9.7					

Appendix 29. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Kogalu River, (Clyde River), August 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
400-449	5	430	980	45	1.23	5	434	1140	428	1.39	10	432	1060	299	1.31	50
450-499	8	470	1213	327	1.18	17	471	1147	101	1.10	25	471	1168	197	1.12	68
500-549	15	520	1527	202	1.09	21	525	1495	225	1.03	36	523	1508	213	1.06	58
550-599	16	572	2144	354	1.14	6	562	1967	163	1.11	22	569	2095	320	1.14	27
600-649	7	614	2514	219	1.09	-	-	-	-	-	7	614	2514	219	1.09	-
700-749	1	710	4400	-	1.23	-	-	-	-	-	1	710	4400	-	1.23	-
TOTAL	52					49					101					
MEAN		536	1804	671	1.14		502	1396	341	1.10		519	1606	572	1.12	49

Appendix 30. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Kogalu River, (Clyde River), August 1996.

AGE (YR)	MALES N	MALES %	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
11	4	8	515	61	1625	532	1.16	4	9	490	28	1375	359	1.16	8	8	503	46	1500	441	1.16	50
12	9	18	497	52	1411	454	1.12	18	40	487	46	1261	352	1.08	27	28	490	48	1311	387	1.10	67
13	12	24	531	66	1867	660	1.23	11	24	530	32	1564	301	1.04	23	24	530	51	1722	532	1.14	48
14	21	42	551	49	1867	540	1.09	9	20	514	36	1489	359	1.08	30	32	540	48	1753	517	1.09	30
15	2	4	510	85	1450	636	1.06	-	-	-	-	-	-	-	2	2	510	85	1450	636	1.06	-
16	1	2	625	-	2600	-	1.06	3	7	487	15	1200	100	1.04	4	4	521	70	1550	705	1.05	75
18	1	2	710	-	4400	-	1.23	-	-	-	-	-	-	-	1	1	710	-	4400	-	1.23	-
TOTAL	50							45							95							
MEAN			537	63	1814	682	1.14			503	41	1387	346	1.08			521	56	1612	587	1.11	47
MEAN AGE			13.3							12.8							13.1					

Appendix 31. Biological data by length interval for Arctic charr sampled from rod and reel, Naqsaarluk Lake (Clyde River), June 1996.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
450-499	3	473	1133	275	1.07	-	-	-	-	-	3	473	1133	275	1.07	-
500-549	3	530	1717	236	1.15	3	533	1550	312	1.03	6	532	1633	264	1.09	50
550-599	3	567	1733	306	0.95	7	566	1750	119	0.97	10	566	1745	174	0.96	70
600-649	3	618	2517	275	1.06	2	610	2275	35	1.00	5	615	2420	236	1.04	40
650-699	5	670	3100	436	1.03	7	667	3000	272	1.01	12	668	3042	335	1.02	58
700-749	2	725	3725	530	0.97	4	713	3450	675	0.95	6	717	3542	591	0.96	67
750-799	3	760	4383	231	1.00	1	760	4400	-	1.00	4	760	4388	189	1.00	25
TOTAL	22					24					46					
MEAN		620	2609	1116	1.04		628	2527	879	0.99		624	2566	989	1.01	52

Appendix 32. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Naqsaarluk Lake (Clyde River), May 1997.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
450-499	1	490	1200	-	1.02	1	460	900	-	0.92	2	475	1050	212	0.97	50
500-549	2	525	1400	141	0.97	4	523	1250	238	0.87	6	523	1300	210	0.90	67
550-599	9	570	1844	292	0.99	3	557	1700	100	0.99	12	567	1808	261	0.99	25
600-649	19	627	2553	360	1.03	11	628	2545	207	1.03	30	627	2550	308	1.03	37
650-699	11	669	3127	372	1.05	12	667	2942	470	0.99	23	668	3030	427	1.02	52
700-749	13	715	3800	535	1.04	1	710	4000	-	1.12	14	715	3814	517	1.04	7
750-799	10	768	4590	428	1.02	1	755	3200	-	0.74	11	766	4464	584	0.99	9
800-849	2	820	5600	283	1.02	-	-	-	-	-	2	820	5600	283	1.02	-
TOTAL	67					33					100					
MEAN		665	3134	1100	1.03		624	2470	767	0.98		651	2915	1047	1.01	33

Appendix 33. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Naqsaarluk Lake (Clyde River), May 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
10	2	3	630	28	2400	566	0.95	1	3	630	-	2800	-	1.12	3	3	630	20	2533	462	1.01	33
11	1	2	510	-	1300	-	0.98	2	7	530	99	1600	990	0.99	3	3	523	71	1500	721	0.99	67
12	6	10	572	59	2100	923	1.07	6	21	593	56	2167	619	1.01	12	13	583	56	2133	750	1.04	50
13	16	25	647	64	2856	845	1.03	5	17	629	54	2300	469	0.92	21	23	642	61	2724	799	1.01	24
14	16	25	663	61	3131	939	1.04	7	24	658	20	2929	559	1.02	23	25	662	51	3070	834	1.04	30
15	5	8	638	84	2820	1256	1.03	4	14	638	56	2650	676	1.00	9	10	638	68	2744	984	1.02	44
16	6	10	713	45	3450	666	0.95	3	10	642	118	2400	1217	-	8	9	730	52	4188	1048	1.06	-
18	2	3	735	49	4100	990	1.02	1	3	640	-	2400	-	0.92	3	3	703	65	3533	1206	0.99	33
19	1	2	770	-	4200	-	0.92	-	-	-	-	-	-	-	1	1	770	-	4200	-	0.92	-
TOTAL	63							29							92							
MEAN			662	75	3098	1068	1.03			625	63	2455	705	0.98			650	73	2896	1010	1.01	32
MEAN AGE	14.2									13.6							14.0					

Appendix 34. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Sam Ford Fiord (Clyde River), March 1998.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
500-549	2	530	1550	141	1.04	3	520	1450	361	1.02	5	524	1490	270	1.03	60
550-599	15	578	2120	225	1.10	9	576	2111	190	1.11	24	577	2117	208	1.	38
600-649	20	618	2603	278	1.10	23	622	2598	286	1.08	43	620	2600	279	1.09	53
650-699	16	671	3284	334	1.08	2	665	3025	177	1.03	18	671	3256	328	1.08	11
700-749	8	708	4006	297	1.13	-	-	-	-	-	8	708	4006	297	1.13	-
750-799	3	767	5133	431	1.14	-	-	-	-	-	3	767	5133	431	1.14	-
TOTAL	64					37					101					
MEAN		637	2921	859	1.10		605	2409	457	1.08		625	2734	776	1.09	37

Appendix 35. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Sam Ford Fiord (Clyde River), March 1998.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
11	1	2	590	-	2400	-	1.17	1	3	600	-	2550	-	1.18	2	2	595	7	2475	106	1.17	50
12	1	2	600	-	2550	-	1.18	2	6	525	35	1475	601	0.99	3	3	550	50	1833	752	1.05	67
13	7	11	573	37	2057	449	1.08	6	18	572	37	2142	441	1.13	13	14	572	35	2096	428	1.10	46
14	16	26	611	37	2528	438	1.10	7	21	607	34	2336	361	1.04	23	24	610	35	2470	418	1.08	30
15	14	23	630	41	2714	558	1.07	11	33	618	26	2627	268	1.11	25	26	625	35	2676	447	1.09	44
16	15	24	671	42	3427	695	1.12	4	12	615	24	2300	414	0.99	19	20	659	45	3189	792	1.09	21
17	5	8	716	55	4320	1034	1.16	1	3	630	-	2650	-	1.06	6	6	702	61	4042	1149	1.14	17
18	3	5	710	17	3900	436	1.09	1	3	630	-	3000	-	1.20	4	4	690	42	3675	574	1.11	25
TOTAL	62							33							95							
MEAN			638	57	2944	856	1.10			602	38	2377	452	1.08			625	54	2747	786	1.10	35
MEAN AGE	15.0							14.4							14.8							

Appendix 36. Biological data by length interval from Arctic charr sampled from 5.5 inch mesh gill nets, Killautarialik Lake (Clyde River), March 1999.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					% FEMALE
	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	
300-349	1	300	200	-	0.74	-	-	-	-	-	1	300	200	-	0.74	-
450-499	2	475	1125	35	1.05	4	475	1150	268	1.07	6	475	1142	208	1.06	67
500-549	4	528	2075	957	1.40	5	516	1410	152	1.02	9	521	1706	691	1.19	56
550-599	10	569	2000	277	1.08	9	570	2028	154	1.09	19	569	2013	222	1.09	47
600-649	16	624	2678	234	1.10	12	619	2746	497	1.15	28	622	2707	364	1.12	43
650-699	10	656	3120	392	1.10	5	672	3440	520	1.13	15	661	3227	448	1.11	33
700-749	15	715	4060	613	1.12	1	730	3000	-	0.77	16	716	3994	649	1.09	6
750-799	5	764	5470	494	1.22	-	-	-	-	-	5	764	5470	494	1.22	-
800-849	1	800	5500	-	1.07	-	-	-	-	-	1	800	5500	-	1.07	-
TOTAL	64					36					100					
MEAN		640	3102	1227	1.12		587	2307	821	1.10		621	2816	1159	1.11	36

Appendix 37. Biological data by age class from Arctic charr sampled from 5.0 inch mesh gill nets, Killautarialik Lake (Clyde River), March 1999.

AGE	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
8	1	2	300	-	200	-	0.74	-	-	-	-	-	-	-	1	1	300	-	200	-	0.74	-
10	2	4	475	7	1125	35	1.05	4	13	513	58	1413	480	1.02	6	7	500	49	1317	401	1.03	67
11	5	9	554	40	1780	513	1.03	2	7	505	35	1250	354	0.96	7	8	540	43	1629	513	1.01	29
12	4	7	653	50	3025	811	1.07	2	7	555	106	2050	1414	1.08	6	7	620	79	2700	1024	1.08	33
13	10	18	641	48	2885	804	1.07	4	13	588	38	2475	796	1.19	14	16	626	50	2768	794	1.10	29
14	11	19	655	82	3473	1312	1.20	8	27	593	45	2425	683	1.14	19	22	629	74	3032	1192	1.17	42
15	18	32	658	80	3375	1242	1.16	5	17	596	17	2200	200	1.04	23	26	644	75	3120	1202	1.13	22
16	4	7	678	56	3513	834	1.12	2	7	645	7	2875	177	1.07	6	7	667	47	3300	729	1.11	33
17	1	2	650	-	2900	-	1.06	3	10	670	66	2983	675	1.00	4	5	665	54	2963	553	1.01	75
18	1	2	710	-	4800	-	1.34	-	-	-	-	-	-	-	1	1	710	-	4800	-	1.34	-
TOTAL	57							30							87							
MEAN			634	89	3035	1240	1.12			585	63	2242	762	1.08			617	84	2761	1158	1.11	34
MEAN AGE			13.8							13.6							13.7					

Appendix 38. Biological data by length interval for Arctic charr sampled from 5.0 inch mesh gill nets, Natluksiak Lake (Qikiqtaarjuaq), October 1995.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
350-399	-	-	-	-	-	2	388	550	71	0.94	2	388	550	71	0.94	-
400-449	1	445	1000	-	1.13	1	420	1000	-	1.35	2	433	1000	0	1.24	50
450-499	2	485	1300	0	1.14	14	483	1505	105	1.33	16	483	1479	121	1.31	88
500-549	13	518	1682	128	1.21	19	519	1758	189	1.26	32	519	1727	169	1.24	59
550-599	5	570	2380	192	1.29	11	567	2309	318	1.26	16	568	2331	280	1.27	69
600-649	9	626	2978	545	1.21	8	617	3071	448	1.30	17	622	3022	488	1.25	47
650-699	5	672	3600	768	1.19	4	661	3600	490	1.24	9	667	3600	620	1.21	44
700-749	6	717	4233	763	1.15	-	-	-	-	-	6	717	4233	763	1.15	-
TOTAL	41					59					100					
MEAN		593	2624	1088	1.20		536	2050	766	1.27		559	2285	950	1.24	59

Appendix 39. Biological data by age class for Arctic charr sampled from 5.0 inch mesh gill nets, Natluksiak Lake (Qikiqtaarjuaq), October 1995.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
8	-	-	-	-	-	-	-	1	2	485	-	1500	-	1.31	1	1	485	-	1500	-	1.31	-
9	2	6	473	39	1325	460	1.23	1	2	380	-	500	-	0.91	3	4	442	60	1050	577	1.12	33
10	5	15	507	16	1560	182	1.19	10	19	521	48	1810	407	1.27	15	18	516	40	1727	361	1.24	67
11	3	9	538	30	2000	436	1.27	16	31	513	48	1748	497	1.26	19	22	517	46	1788	486	1.26	84
12	11	33	580	63	2386	998	1.18	17	33	567	57	2353	644	1.27	28	33	572	59	2366	784	1.23	61
13	6	18	661	36	3417	621	1.19	4	8	556	74	2450	1079	1.36	10	12	619	74	3030	923	1.26	40
14	3	9	640	28	3333	379	1.27	1	2	630	-	3570	-	1.43	4	5	638	23	3393	331	1.31	25
15	3	9	663	77	3433	971	1.18	-	-	-	-	-	-	-	3	4	663	77	3433	971	1.18	-
16	-	-	-	-	-	-	-	1	2	670	-	4000	-	1.33	1	1	670	-	4000	-	1.33	-
18	-	-	-	-	-	-	-	1	2	645	-	3900	-	1.45	1	1	645	-	3900	-	1.45	-
TOTAL	33							52							85							
MEAN			586	77	2530	1009	1.20			540	65	2103	788	1.28			558	73	2269	899	1.25	61
MEAN AGE			12.1							11.5							11.7					

Appendix 40. Biological data by length interval for Arctic charr sampled from 5.0 inch mesh gill nets, Natluksiak Lake (Qikiqtaarjuaq), January, 1999.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
300-349	1	300	200	-	0.74	-	-	-	-	-	1	300	200	-	0.74	-
450-499	2	475	1125	35	1.05	4	475	1150	268	1.07	6	475	1142	208	1.06	67
500-549	4	528	2075	957	1.40	5	516	1410	152	1.02	9	521	1706	691	1.19	56
550-599	10	569	2000	277	1.08	9	570	2028	154	1.09	19	569	2013	222	1.09	47
600-649	16	624	2678	234	1.10	12	619	2746	497	1.15	28	622	2707	364	1.12	43
650-699	10	656	3120	392	1.10	5	672	3440	520	1.13	15	661	3227	448	1.11	33
700-749	15	715	4060	613	1.12	1	730	3000	-	0.77	16	716	3994	649	1.09	6
750-799	5	764	5470	494	1.22	-	-	-	-	-	5	764	5470	494	1.22	-
800-849	1	800	5500	-	1.07	-	-	-	-	-	1	800	5500	-	1.07	-
TOTAL	64					36					100					36
MEAN		640	3102	1227	1.12		587	2307	821	1.10		621	2816	1159	1.11	

Appendix 41. Biological data by age class for Arctic charr sampled from 5.0 inch mesh gill nets, Natluqsiaq Lake (Qikiqtaarjuaq), January 1999.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
8	1	2	300	-	200	-	0.74	-	-	-	-	-	-	-	1	1	300	-	200	-	0.74	-
10	2	4	475	7	1125	35	1.05	4	13	513	58	1413	480	1.02	6	7	500	49	1317	401	1.03	67
11	5	9	554	40	1780	513	1.03	2	7	505	35	1250	354	0.96	7	8	540	43	1629	513	1.01	29
12	4	7	653	50	3025	811	1.07	2	7	555	106	2050	1414	1.08	6	7	620	79	2700	1024	1.08	33
13	10	18	641	48	2885	804	1.07	4	13	588	38	2475	796	1.19	14	16	626	50	2768	794	1.10	29
14	11	19	655	82	3473	1312	1.20	8	27	593	45	2425	683	1.14	19	22	629	74	3032	1192	1.17	42
15	18	32	658	80	3375	1242	1.16	5	17	596	17	2200	200	1.04	23	26	644	75	3120	1202	1.13	22
16	4	7	678	56	3513	834	1.12	2	7	645	7	2875	177	1.07	6	7	667	47	3300	729	1.11	33
17	1	2	650	-	2900	-	1.06	3	10	670	66	2983	675	1.00	4	5	665	54	2963	553	1.01	5
18	1	2	710	-	4800	-	1.34	-	-	-	-	-	-	-	1	1	710	-	4800	-	1.34	-
TOTAL	57							30							87							
MEAN			634	89	3035	1240	1.12			585	63	2242	762	1.08			617	84	2761	1158	1.11	34
MEAN AGE			13.8							13.6							13.7					

Appendix 42. Biological data by length interval for Artic charr sampled from 5.5 inch mesh gill nets, Nudluit Lake (Qikiqtaartuaq), January 1996.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
250-299	-	-	-	-	-	1	280	230	-	1.05	1	280	230	-	1.05	-
300-349	-	-	-	-	-	2	318	350	71	1.09	2	318	350	71	1.09	-
350-399	4	388	640	108	1.10	6	378	560	65	1.04	10	382	592	89	1.06	60
400-449	7	433	936	88	1.15	6	418	857	74	1.18	13	426	899	89	1.16	46
450-499	10	473	1154	105	1.09	9	474	1214	93	1.14	19	473	1183	101	1.11	47
500-549	7	525	1699	310	1.16	11	530	1853	190	1.24	18	528	1793	247	1.21	61
550-599	15	569	2295	258	1.24	17	569	2227	156	1.21	32	569	2259	210	1.23	53
600-649	2	613	2770	608	1.20	2	625	2715	21	1.12	4	619	2743	353	1.16	50
650-699	-	-	-	-	-	1	650	3500	-	1.27	1	650	3500	-	1.27	-
TOTAL	45					55					100					
MEAN		505	1611	689	1.17		497	1591	752	1.17		501	1600	720	1.17	55

Appendix 43. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Nudluit Lake (Qikiqtaartuaq), January 1996.

	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
AGE (YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
7	-	-	-	-	-	-	-	2	4	315	49	340	156	1.05	2	2	315	49	340	156	1.05	-
8	1	3	385	-	600	-	1.05	2	4	360	42	500	141	1.06	3	3	368	33	533	115	1.06	67
9	7	18	440	40	901	241	1.04	4	8	391	69	710	403	1.08	11	12	422	55	832	305	1.05	36
10	4	10	493	66	1518	670	1.22	11	22	442	63	1056	514	1.15	15	16	456	65	1179	574	1.17	73
11	14	35	521	57	1738	595	1.18	13	25	547	49	1961	522	1.20	26	29	546	45	1995	522	1.20	65
13	4	10	576	33	2308	602	1.19	2	4	520	64	1650	636	1.14	6	7	558	48	2088	643	1.17	33
14	1	3	560	-	2400	-	1.37	-	-	-	-	-	-	-	1	1	560	-	2400	-	1.37	-
TOTAL	40							51							91							
MEAN			514	66	1687	692	1.17			494	88	1562	767	1.17			502	79	1617	734	1.17	56
MEAN AGE	11.0								10.8							10.9						

Appendix 44. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Tunusuk Lake, (Qikiqtaarjuaq), March 1997.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	% FEMALE
450-499	-	-	-	-	-	4	478	1125	150	1.03	4	478	1125	150	1.03	-
500-549	-	-	-	-	-	4	528	1825	499	1.23	4	528	1825	499	1.23	-
550-599	-	-	-	-	-	9	582	2211	203	1.12	9	582	2211	203	1.12	-
600-649	5	632	2780	295	1.11	21	625	2817	386	1.15	27	626	2824	366	1.15	81
650-699	7	673	3486	463	1.14	28	675	3323	342	1.08	36	674	3351	363	1.09	80
700-749	8	713	3913	318	1.08	3	713	3667	569	1.01	11	713	3845	386	1.06	27
750-799	6	760	4000	654	0.91	-	-	-	-	-	6	760	4000	654	0.91	-
800-849	1	800	5400	-	1.05	2	810	4050	636	0.76	3	807	4500	900	0.86	67
TOTAL	27					71					100					72
MEAN		701	3667	702	1.06		634	2859	749	1.10		652	3084	809	1.09	

Appendix 45. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Avaliqqut Lake (Qikiqtaarjuaq), March 1997.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
350-399	-	-	-	-	-	1	350	600	-	1.40	1	350	600	-	1.40	-
400-449	-	-	-	-	-	2	410	800	141	1.16	2	410	800	141	1.16	-
450-499	-	-	-	-	-	3	473	1167	231	1.09	3	473	1167	231	1.09	-
500-549	1	540	1100	-	0.70	9	524	1656	464	1.16	12	527	1608	432	1.11	90
550-599	3	577	2033	289	1.06	23	575	2207	441	1.16	26	575	2187	426	1.15	88
600-649	2	625	2900	424	1.19	29	622	2576	312	1.07	31	622	2597	322	1.08	94
650-699	6	665	3000	908	1.01	12	674	3288	690	1.07	19	670	3171	739	1.05	67
700-749	3	710	3267	351	0.91	-	-	-	-	-	4	718	3675	866	0.99	-
750-799	-	-	-	-	-	1	750	4300	-	1.02	1	750	4300	-	1.02	-
800-849	1	820	6200	-	1.12	-	-	-	-	-	1	820	6200	-	1.12	-
TOTAL	16					80					100					
MEAN		654	2938	1198	1.01		593	2373	769	1.11		603	2478	899	1.10	83

Appendix 46. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Kagnilliarjuit Lake (Qikiqtaarjuaq), March 1997.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	N	LENGTH (MM) MEAN	WEIGHT (G) MEAN	WEIGHT (G) SD	K	% FEMALE
450-499	-	-	-	-	-	-	-	-	-	-	1	490	1400	-	1.19	-
500-549	-	-	-	-	-	8	528	1488	331	1.01	9	528	1467	316	0.99	-
550-599	2	590	2400	707	1.17	29	573	2231	333	1.18	33	574	2236	341	1.18	94
600-649	4	623	1975	591	0.81	22	617	2586	333	1.10	29	619	2583	501	1.08	85
650-699	5	662	3020	589	1.04	15	669	3247	541	1.09	20	667	3190	547	1.07	75
700-749	1	710	3900	-	1.09	5	712	3920	804	1.08	6	712	3917	719	1.08	83
750-799	1	750	4300	-	1.02	1	750	3500	-	0.83	2	750	3900	566	0.92	50
TOTAL	13					80					100					
MEAN		649	2769	898	0.99		610	2566	733	1.11		613	2584	767	1.10	86

Appendix 47. Biological data by length interval for Arctic charr sampled from 5.0 inch mesh gill nets, Kingnait Fiord (Pangnirtung), March 1997. *

LENGTH INTERVAL (MM)	NO.	%	MEAN FORK LENGTH (MM)	ROUND WEIGHT (G) MEAN	SD	K
450-499	1	1	480	1300	-	1.18
500-549	10	10	535	1400	244	0.92
550-599	47	47	571	1794	393	0.96
600-649	29	29	616	2251	344	0.96
650-699	10	10	657	2710	295	0.95
700-749	3	3	707	3183	388	0.90
TOTAL	100					
MEAN			593	2016	543	0.95

* Gender not recorded for these samples.

Appendix 48. Biological data by age class for Arctic charr sampled from 5.0 inch mesh gill nets, Kingnait Fiord (Pangnirtung), March 1997. *

AGE (YR)	N	%	LENGTH (MM) MEAN	SD	WEIGHT (G) MEAN	SD	K
9	4	5	535	39	1525	330	1.00
10	13	16	566	24	1885	336	1.04
11	7	8	596	46	2157	723	1.00
12	15	18	577	38	1683	503	0.86
13	16	19	593	35	2103	572	0.99
14	8	10	624	56	2281	550	0.93
15	6	7	563	19	1650	399	0.91
16	5	6	594	24	2126	272	1.01
18	7	8	609	48	2150	732	0.93
19	2	2	640	14	2400	283	0.92
TOTAL	83						
MEAN			587	42	1967	547	0.96
MEAN AGE	13.0						

* Sex not recorded for these samples.

Appendix 49. Biological data by length interval for Arctic charr sampled from 1.5 and 3.0 inch mesh gill nets, Avataktuuk Lake (Pangnirtung), May 1997. *

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
300-349	-	-	-	-	-	1	300	-	-	-	1	300	-	-	-	-
350-399	18	378	-	-	-	7	380	-	-	-	25	379	-	-	-	28
400-449	14	417	-	-	-	10	420	-	-	-	24	418	-	-	-	42
450-499	10	465	-	-	-	15	468	-	-	-	25	467	-	-	-	60
500-549	11	515	-	-	-	8	518	-	-	-	19	516	-	-	-	42
550-599	4	560	-	-	-	-	-	-	-	-	4	560	-	-	-	-
600-649	2	605	-	-	-	-	-	-	-	-	2	605	-	-	-	-
TOTAL	59					41					100					
MEAN		448	-	-	-		447	-	-	-		447	-	-	-	41

* weights not used.

Appendix 50. Biological data by age class for Arctic charr sampled from 1.5 and 3.0 inch mesh gill nets, Avataktuuk Lake (Pangnirtung), May 1997. *

AGE	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
8	2	4	375	21	-	-	-	3	8	453	32	-	-	-	5	5	422	50	-	-	-	60
9	5	9	388	15	-	-	-	10	25	387	44	-	-	-	15	15	387	36	-	-	-	67
10	14	25	400	30	-	-	-	8	20	431	34	-	-	-	22	23	412	34	-	-	-	36
11	11	19	464	76	-	-	-	6	15	453	29	-	-	-	17	18	460	62	-	-	-	35
12	17	30	476	68	-	-	-	8	20	491	35	-	-	-	25	26	481	59	-	-	-	32
13	5	9	478	64	-	-	-	4	10	491	33	-	-	-	9	9	484	50	-	-	-	44
14	1	2	520	-	-	-	-	1	3	530	-	-	-	-	2	2	525	7	-	-	-	50
15	2	4	500	57	-	-	-	-	-	-	-	-	-	-	2	2	500	57	-	-	-	-
TOTAL	57							40							97							
MEAN			446	68	-	-	-			446	54	-	-	-			446	62	-	-	-	41
MEAN AGE	11.1									10.6							10.9					

* weights not used.

Appendix 51. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Iqalujjuaq Fiord (Pangnirtung), August 1997.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
350-399	4	388	638	48	1.10	5	380	690	74	1.25	9	383	667	66	1.18	56
400-449	2	415	900	0	1.26	4	420	900	196	1.20	6	418	900	152	1.22	67
450-499	2	470	1225	318	1.16	3	490	1483	76	1.26	5	482	1380	220	1.22	60
500-549	3	520	1633	293	1.15	7	516	1671	147	1.22	10	517	1660	184	1.20	70
550-599	12	571	2163	330	1.16	24	566	2171	264	1.20	36	568	2168	283	1.19	67
600-649	10	621	2570	309	1.08	8	614	2681	328	1.16	19	617	2613	306	1.11	44
650-699	12	669	3288	475	1.10	-	-	-	-	-	12	669	3288	475	1.10	-
700-749	3	720	3700	361	0.99	-	-	-	-	-	3	720	3700	361	0.99	-
TOTAL	48					51					100					
MEAN		586	2373	945	1.11		532	1897	656	1.20		559	2132	836	1.16	52

Appendix 52. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Iqalujjuaq Fiord (Pangnirtung), August 1997.

AGE	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
6	1	2	580	-	2400	-	1.23	1	2	490	-	1400	-	1.19	2	2	535	64	1900	707	1.21	50
7	1	2	630	-	3200	-	1.28	-	-	-	-	-	-	-	1	1	630	-	3200	-	1.28	-
8	5	12	450	82	1180	753	1.19	5	11	402	55	830	377	1.22	10	12	426	71	1005	591	1.20	50
9	2	5	470	113	1275	884	1.12	2	5	400	14	825	35	1.29	4	5	435	77	1050	573	1.20	50
10	6	15	503	89	1592	756	1.15	7	16	517	75	1771	705	1.21	13	15	511	79	1688	704	1.18	54
11	2	5	590	14	2425	177	1.18	13	30	547	32	2065	379	1.25	16	19	556	35	2138	376	1.24	87
12	10	24	610	65	2680	703	1.16	7	16	564	64	2143	643	1.17	17	20	591	67	2459	712	1.16	41
13	8	20	643	35	2825	607	1.06	4	9	578	64	2200	644	1.13	12	14	621	54	2617	665	1.08	33
14	3	7	667	55	2883	804	0.97	3	7	567	15	2133	189	1.17	6	7	617	66	2508	664	1.07	50
15	-	-	-	-	-	-	-	1	2	550	-	2700	-	1.62	1	1	550	-	2700	-	1.62	-
16	2	5	690	28	3550	636	1.07	-	-	-	-	-	-	-	2	2	690	28	3550	636	1.07	-
18	-	-	-	-	-	-	-	1	2	600	-	2500	-	1.16	1	1	600	-	2500	-	1.16	-
19	1	2	730	-	3300	-	0.85	-	-	-	-	-	-	-	1	1	730	-	3300	-	0.85	-
TOTAL	41							44							86							
MEAN			584	99	2363	942	1.12			526	75	1860	677	1.22			555	91	2108	845	1.17	52
MEAN AGE			11.5							11.1							11.3					

Appendix 53. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Iqalukjuaat(Pangnirtung), August 1997.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
300-349	3	333	500	0	1.36	2	330	500	0	1.40	5	332	500	0	1.37	40
350-399	7	371	657	130	1.27	11	376	732	115	1.37	18	374	703	123	1.33	61
400-449	4	415	963	85	1.35	11	421	1036	98	1.39	15	419	1017	98	1.38	73
450-499	-	-	-	-	-	8	470	1500	215	1.44	8	470	1500	215	1.44	-
500-549	3	523	1817	58	1.27	11	515	1918	178	1.40	14	517	1896	163	1.37	79
550-599	5	566	2140	556	1.18	14	565	2446	294	1.35	19	565	2366	388	1.31	74
600-649	6	625	3092	211	1.27	3	613	3117	548	1.34	9	621	3100	321	1.29	33
650-699	5	672	3970	670	1.31	3	650	3583	333	1.30	8	664	3825	573	1.31	38
700-749	4	725	4325	253	1.14	-	-	-	-	-	4	725	4325	253	1.14	-
TOTAL	37					63					100					
MEAN		532	2211	1434	1.26		485	1713	863	1.38		502	1897	1128	1.34	63

Appendix 54. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Iqalukjuaat (Pangnirtung), August 1997.

	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
AGE (YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
5	2	6	345	7	500	0	1.22	1	2	360	-	500	-	1.07	3	3	350	10	500	0	1.17	33
6	3	9	360	36	650	150	1.39	4	6	375	42	725	210	1.36	7	7	369	37	693	177	1.37	57
7	4	13	390	29	763	193	1.26	12	19	422	50	1100	415	1.41	16	17	414	47	1016	395	1.38	75
8	2	6	495	92	1600	778	1.27	6	10	450	80	1383	783	1.40	8	9	461	79	1438	731	1.37	75
9	2	6	430	127	1125	884	1.26	14	23	472	65	1582	616	1.42	16	17	467	70	1525	637	1.40	88
10	4	13	573	43	2525	463	1.34	11	18	517	62	1932	587	1.36	15	16	532	61	2090	605	1.35	73
11	5	16	582	112	2810	1331	1.33	8	13	558	50	2425	767	1.36	13	14	567	76	2573	985	1.35	62
12	5	16	666	47	3730	822	1.26	6	10	595	72	2900	844	1.34	11	12	627	70	3277	903	1.31	55
13	3	9	660	61	3500	866	1.21	-	-	-	-	-	-	-	3	3	660	61	3500	866	1.21	-
14	1	3	730	-	4450	-	1.14	-	-	-	-	-	-	-	1	1	730	-	4450	-	1.14	-
15	1	3	710	-	4400	-	1.23	-	-	-	-	-	-	-	1	1	710	-	4400	-	1.23	-
TOTAL	32							62							94							
MEAN			535	138	2300	1463	1.28			483	86	1695	858	1.38			501	09	1901	1131	1.35	66
MEAN AGE		9.8							9.0								9.3					

Table 55. Biological data by length interval for Arctic charr sampled from 5.0 and 5.5 inch mesh gill nets, Kipisa River (Pangnirtung) August 1997.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
350-399	1	390	750	-	1.26	-	-	-	-	-	1	390	750	-	1.26	-
400-449	3	427	1067	126	1.37	1	430	1100	-	1.38	4	428	1075	104	1.37	25
450-499	5	474	1470	168	1.38	8	473	1513	148	1.43	13	473	1496	151	1.41	62
500-549	6	517	1850	167	1.34	17	528	2068	203	1.40	23	525	2011	214	1.38	74
550-599	7	571	2421	234	1.30	15	569	2470	265	1.34	22	570	2455	251	1.33	68
600-649	14	620	3104	326	1.30	4	638	3238	131	1.25	18	624	3133	296	1.29	22
650-699	11	677	3968	534	1.28	1	670	4050	-	1.35	12	677	3975	509	1.28	8
700-749	6	712	3950	498	1.09	1	730	4350	-	1.12	7	714	4007	479	1.10	14
TOTAL	53					47					100					
MEAN		595	2833	1063	1.29		546	2271	665	1.37		572	2569	937	1.32	47

Table 56. Biological data by age class for Arctic charr sampled from 5.0 and 5.5 inch mesh gill nets, Kipisa River (Pangnirtung), August 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
6	2	4	480	28	1550	141	1.40	-	-	-	-	-	-	-	2	2	480	28	1550	141	1.40	-
7	4	8	448	59	1238	511	1.33	4	10	495	31	1800	294	1.48	8	9	471	51	1519	489	1.40	50
8	4	8	533	67	2050	708	1.32	5	13	540	37	2200	464	1.38	9	10	537	49	2133	549	1.35	56
9	6	12	508	69	1767	606	1.31	12	30	518	29	1950	318	1.40	18	20	514	44	1889	425	1.37	67
10	8	16	579	42	2519	411	1.30	8	20	529	58	2056	635	1.35	16	18	554	55	2288	569	1.32	50
11	4	8	608	76	3313	1256	1.41	3	8	527	57	2067	679	1.39	7	8	573	77	2779	1177	1.40	43
12	8	16	656	56	3444	848	1.21	6	15	570	40	2508	421	1.35	14	15	619	65	3043	828	1.27	43
13	2	4	635	49	3425	530	1.34	1	3	670	-	4050	-	1.35	3	3	647	40	3633	520	1.34	33
14	3	6	650	56	3267	454	1.20	-	-	-	-	-	-	-	3	3	650	56	3267	454	1.20	-
15	2	4	670	42	3425	318	1.14	1	3	630	-	3300	-	1.32	3	3	657	38	3383	236	1.20	33
16	4	8	683	41	4238	427	1.34	-	-	-	-	-	-	-	4	4	683	41	4238	427	1.34	-
17	3	6	657	32	3267	161	1.16	-	-	-	-	-	-	-	3	3	657	32	3267	161	1.16	-
20	1	2	670	-	3900	-	1.30	-	-	-	-	-	-	-	1	1	670	-	3900	-	1.30	-
TOTAL	51							40							91							
MEAN			591	89	783	1052	1.29			536	51	2166	591	1.38			567	79	2512	928	1.33	44
MEAN AGE		11.4								9.7							10.6					

Appendix 57. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gill nets, Katoga River (Kimmirut), August 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
400-449	1	440	1000	-	1.17	2	425	1000	0	1.30	3	430	1000	0	1.26	67
450-499	2	463	1200	141	1.21	9	477	1378	192	1.27	11	474	1345	192	1.26	82
500-549	10	520	1640	232	1.17	6	522	1550	288	1.10	16	521	1606	249	1.14	38
550-599	7	569	2107	256	1.14	8	554	1531	462	0.90	15	561	1800	472	1.01	53
600-649	4	614	2425	946	1.05	-	-	-	-	-	4	614	2425	946	1.05	-
650-699	1	680	3900	-	1.24	-	-	-	-	-	1	680	3900	-	1.24	-
TOTAL	25					25					50					
MEAN		547	1926	690	1.15		508	1438	340	1.11		528	1682	592	1.13	50

Appendix 58. Biological data by length interval for Arctic charr sampled from 4.5 inch mesh gill nets, Katoga River (Kimmirut), August 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
400-449	1	430	1000	-	1.26	8	428	1606	1978	2.26	9	428	1539	1861	2.15	89
450-499	3	467	1150	100	1.13	15	462	1167	211	1.18	18	463	1164	195	1.17	83
500-549	5	522	1430	186	1.00	4	520	1450	372	1.02	9	521	1439	263	1.01	44
550-599	8	569	1913	274	1.04	1	560	1650	-	0.94	9	568	1883	270	1.03	11
600-649	4	623	2550	242	1.06	1	600	1650	-	0.76	5	618	2370	454	1.00	20
TOTAL	21					29					50					
MEAN		547	1767	537	1.06		469	1360	1030	1.43		501	1531	874	1.28	58

Appendix 59. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gill nets, Iqaluit River (Kimmirut), August 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
300-349	4	339	488	25	1.25	5	324	440	108	1.27	9	331	461	82	1.26	56
350-399	14	372	689	96	1.34	14	373	707	133	1.35	28	373	698	114	1.34	50
400-449	17	420	962	99	1.30	19	421	947	156	1.26	36	421	954	131	1.28	53
450-499	16	471	1250	177	1.20	4	463	1263	138	1.27	20	469	1253	167	1.21	20
500-549	5	519	1670	362	1.18	-	-	-	-	-	5	519	1670	362	1.18	-
550-599	2	585	2275	106	1.14	-	-	-	-	-	2	585	2275	106	1.14	-
TOTAL	58					42					100					
MEAN		431	1049	420	1.26		398	837	259	1.29		417	960	375	1.27	42

Appendix 60. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Iqaluit River (Kimmirut), August 1996.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
5	3	5	350	22	517	76	1.20	-	-	-	-	-	-	-	3	3	350	22	517	76	1.20	-
6	15	26	375	25	703	145	1.32	11	28	355	36	605	204	1.31	26	27	367	31	662	176	1.31	42
7	7	12	414	17	943	73	1.34	7	18	390	26	800	158	1.33	14	14	402	25	871	140	1.34	50
8	15	26	437	39	1050	225	1.25	16	40	416	7	903	228	1.23	31	32	426	35	974	235	1.24	52
9	6	11	471	16	1292	58	1.25	5	13	432	33	1080	196	1.34	11	11	453	31	1195	171	1.29	45
10	8	14	481	38	1375	453	1.21	1	3	415	-	950	-	1.33	9	9	473	41	1328	447	1.22	11
11	3	5	537	45	1817	525	1.15	-	-	-	-	-	-	-	3	3	537	45	1817	525	1.15	-
TOTAL	57							40							97							
MEAN			428	57	1029	395	1.27			397	41	826	252	1.29			415	53	945	356	1.27	41
MEAN AGE			7.7							7.5							7.6					

Appendix 61. Biological data by length interval for Arctic sampled from 4.0 inch mesh gill nets, Natsiaqtuuq River (Kimmirut), July 1996.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
450-499	1	480	1700	-	1.54	2	475	1100	0	1.03	3	477	1300	346	1.20	67
500-549	4	518	1675	450	1.19	4	520	1363	189	0.97	8	519	1519	360	1.08	50
550-599	9	575	1800	459	0.95	4	570	1650	358	0.88	13	573	1754	422	0.93	31
600-649	11	616	2359	426	1.01	4	619	2375	87	1.01	15	617	2363	362	1.01	27
650-699	6	678	2850	179	0.92	1	660	3000	-	1.04	7	676	2871	173	0.93	14
700-749	3	713	3567	58	0.98	1	710	3800	-	1.06	4	713	3625	126	1.00	25
TOTAL	34					16					50					
MEAN		609	2304	677	1.01		572	1909	771	0.97		597	2178	725	1.00	32

Appendix 62. Biological data by length interval for Arctic charr sampled from 4.5 inch mesh gill nets, Natsiaqtuuq River (Kimmirut), July 1996.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
550-599	-	-	-	-	-	8	581	1925	290	0.98	8	581	1925	290	0.98	-
600-649	6	622	2258	107	0.94	8	623	2131	474	0.88	14	622	2186	360	0.91	57
650-699	16	671	2703	198	0.90	4	655	2463	184	0.88	20	668	2655	215	0.89	20
700-749	7	711	3171	459	0.88	1	710	3000	-	0.84	8	711	3150	429	0.88	13
TOTAL	29					21					50					
MEAN		670	2724	406	0.90		617	2157	435	0.92		648	2486	501	0.91	42

Appendix 63. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gill nets, Quaralik River (Kimmirut), August 1997.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
350-399	-	-	-	-	-	1	360	450	-	0.96	1	360	450	-	0.96	-
400-449	2	440	750	71	0.88	1	425	700	-	0.91	3	435	733	58	0.89	33
450-499	5	468	1060	156	1.03	14	475	1139	120	1.06	19	473	1118	130	1.05	74
500-549	15	518	1393	92	1.00	13	518	1500	287	1.07	28	518	1443	209	1.04	46
550-599	11	570	2059	156	1.11	7	579	1900	257	0.98	18	573	1997	210	1.06	39
600-649	11	615	2427	242	1.04	9	621	2411	395	1.00	21	617	2417	303	1.02	45
650-699	5	676	3300	834	1.06	4	654	2138	330	0.77	9	666	2783	874	0.93	44
700-749	4	726	3325	260	0.87	-	-	-	-	-	5	723	3230	309	0.85	-
TOTAL	53					49					104					
MEAN		572	2016	816	1.03		539	1636	578	1.01		558	1848	735	1.02	48

Appendix 64. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Quaralik River (Kimmirut), August 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
7	-	-	-	-	-	-	-	1	2	360	-	500	-	1.07	1	1	360	-	500	-	1.07	-
8	-	-	-	-	-	-	-	3	7	483	28	1383	236	1.22	3	3	483	28	1383	236	1.22	-
9	15	29	496	33	1413	331	1.14	11	25	494	59	1445	464	1.20	26	27	495	45	1427	385	1.16	42
10	9	17	559	35	2222	662	1.24	7	16	503	22	1486	125	1.17	16	16	534	41	1900	619	1.21	44
11	12	23	581	39	2350	407	1.19	8	18	544	36	1900	358	1.17	20	21	567	41	2170	441	1.18	40
12	7	13	598	47	2393	574	1.12	6	14	565	74	2033	705	1.10	14	14	585	59	2261	626	1.11	46
13	-	-	-	-	-	-	-	4	9	595	41	2300	349	1.09	4	4	595	41	2300	349	1.09	-
14	4	8	688	57	3775	889	1.15	1	2	655	-	3000	-	1.07	5	5	681	52	3620	845	1.13	20
15	3	6	703	43	3817	325	1.10	1	2	640	-	3300	-	1.26	4	4	688	47	3688	371	1.14	25
16	2	4	685	7	4150	495	1.29	2	5	608	32	2725	389	1.21	4	4	646	49	3438	899	1.25	50
TOTAL	52							44							97							
MEAN			574	76	2327	950	1.17			532	69	1802	635	1.16			555	75	2093	856	1.17	46
MEAN AGE			11.0							10.8							10.9					

Appendix 65. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gill nets, Qiviaganiq River (Kimmirut), August 1997.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	% FEMALE
350-399	-	-	-	-	-	1	380	500	-	0.91	1	380	500	-	0.91	-
400-449	3	417	527	6	0.73	1	410	520	-	0.75	4	415	525	6	0.74	25
450-499	11	474	1005	244	0.94	8	471	1113	109	1.06	20	472	1025	228	0.97	42
500-549	18	525	1225	90	0.85	12	516	1197	93	0.88	30	521	1214	90	0.86	40
550-599	9	570	1522	469	0.82	7	576	1650	393	0.86	16	573	1578	428	0.84	44
600-649	8	629	2481	348	1.00	8	618	1788	587	0.75	16	623	2134	588	0.87	50
650-699	4	678	2975	499	0.96	3	657	2267	153	0.80	7	669	2671	525	0.89	43
700-749	5	724	2980	497	0.79	-	-	-	-	-	5	724	2980	497	0.79	-
750-799	1	780	4100	-	0.86	-	-	-	-	-	1	780	4100	-	0.86	-
TOTAL	59					40					100					
MEAN		562	1680	873	0.88		542	1423	511	0.88		553	1566	759	0.88	40

Appendix 66. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Qiviaganiq River (Kimmirut), August 1997.

AGE	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
6	-	-	-	-	-	-	-	1	3	380	-	500	-	0.91	1	1	380	-	500	-	0.91	-
7	4	8	465	47	1093	391	1.04	1	3	600	-	2100	-	0.97	5	6	492	73	1294	564	1.03	20
8	5	10	478	52	1204	439	1.06	6	18	473	36	1272	382	1.16	11	13	475	42	1241	389	1.11	55
9	7	14	497	43	1500	462	1.20	4	12	500	36	1313	165	1.06	12	14	494	39	1396	384	1.14	36
10	9	18	546	33	1944	480	1.18	4	12	503	52	1588	507	1.23	13	15	532	43	1835	497	1.19	31
11	10	20	586	58	2560	892	1.22	5	15	546	33	1800	464	1.09	15	18	573	54	2307	843	1.18	33
12	3	6	523	67	1513	843	0.96	4	12	569	50	2150	1002	1.11	7	8	549	58	1877	924	1.04	57
13	2	4	540	85	1800	636	1.13	2	6	560	57	1500	0	0.88	4	5	550	60	1650	406	1.01	50
14	-	-	-	-	-	-	-	2	6	620	71	2850	495	1.21	2	2	620	71	2850	495	1.21	-
15	4	8	675	75	3325	768	1.10	3	9	623	29	2533	404	1.05	7	8	653	62	2986	727	1.08	43
16	4	8	648	87	3000	1117	1.06	1	3	630	-	2200	-	0.88	5	6	644	75	3100	-	0.99	-
18	1	2	780	-	4400	-	0.93	-	-	-	-	-	-	-	1	1	780	-	4400	-	0.93	-
TOTAL	50							33							84							
MEAN			558	88	2099	995	1.13			536	69	1755	689	1.09			548	82	1951	898	1.11	40
MEAN AGE	11.0							10.8							10.9							

Appendix 67. Biological data by length interval for Arctic charr sampled from 4.5 inch mesh gill nets, Qavarusiktuk Lake (Kimmirut), March 1999.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
		LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)			%
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
400-449	4	435	1488	272	1.81	12	435	2850	3829	3.51	16	435	2509	3337	3.09	75
450-499	8	476	2069	272	1.92	19	470	2571	1344	2.51	27	472	2422	1151	2.34	70
500-549	22	516	2916	319	2.12	11	517	2764	457	2.00	33	517	2865	371	2.08	33
550-599	8	570	3819	506	2.06	2	560	3775	318	2.15	10	568	3810	459	2.08	20
600-649	10	625	4785	1089	1.96	1	600	4100	-	1.90	11	623	4723	1054	1.95	9
650-699	2	665	5825	672	1.98	-	-	-	-	-	2	665	5825	672	1.98	-
700-749	1	700	7100	-	2.07	-	-	-	-	-	1	700	7100	-	2.07	-
TOTAL	55					45					100					
MEAN		541	3342	1331	2.02		479	2780	2135	2.62		513	3089	1752	2.29	45

Appendix 68. Biological data by age class from Arctic charr sampled for 4.5 inch mesh gill nets, Qavarusiktuk Lake (Kimmirut), March 1999.

AGE (YR)	MALES							FEMALES							COMBINED							
			LENGTH (MM)		WEIGHT (G)					LENGTH (MM)		WEIGHT (G)					LENGTH (MM)		WEIGHT (G)			%
	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
6	-	-	-	-	-	-	-	1	2	440	-	1650	-	1.94	1	1	440	-	1650	-	1.94	-
7	1	2	440	-	1100	-	1.29	3	7	457	25	2067	416	2.15	4	4	453	22	1825	591	1.93	75
8	3	6	503	25	2817	625	2.18	9	21	458	20	2044	338	2.13	12	13	469	29	2238	525	2.14	75
9	23	44	521	53	2952	855	2.05	12	29	468	35	3400	3682	3.60	35	37	503	54	3106	2215	2.59	34
10	8	15	513	57	2556	667	1.88	10	24	496	46	3245	1829	2.77	18	19	503	50	2939	1442	2.37	56
11	5	10	538	60	3590	1623	2.19	4	10	493	48	2538	708	2.09	9	10	518	57	3122	1346	2.15	44
12	6	12	580	42	4017	843	2.04	2	5	570	42	3200	1273	1.68	8	9	578	39	3813	939	1.95	25
13	3	6	637	31	5400	1229	2.07	1	2	510	-	2550	-	1.92	4	4	605	68	4688	1743	2.03	25
14	3	6	663	35	5867	1073	2.00	-	-	-	-	-	-	-	3	3	663	35	5867	1073	2.00	-
TOTAL	52							42							94							
MEAN			541	66	3341	1318	2.03			479	43	2824	2201	2.67			513	65	3110	1776	2.31	45
MEAN AGE			10.1							9.2							9.7					

Appendix 69. Biological data by length interval for Arctic charr caught in 4.0 inch mesh gill nets, Iqalugajuiit River (Cape Dorset), July 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
300-349	-	-	-	-	-	2	305	200	0	0.71	2	305	200	0	0.71	-
350-399	3	373	367	58	0.70	3	365	367	58	0.75	6	369	367	52	0.73	50
400-449	3	417	500	0	0.70	1	430	600	-	0.75	4	420	525	50	0.71	25
450-499	8	468	925	89	0.90	18	469	983	125	0.95	26	469	965	116	0.94	69
500-549	13	514	1246	166	0.92	18	523	1350	241	0.94	31	519	1306	216	0.93	58
550-599	5	574	1840	152	0.97	17	567	1671	271	0.91	22	569	1709	256	0.93	77
600-649	1	640	2400	-	0.92	5	618	2400	394	1.01	6	622	2400	352	1.00	83
650-699	3	660	2800	520	0.97	-	-	-	-	-	3	660	2800	520	0.97	-
TOTAL	36					64					100					
MEAN		508	1283	679	0.89		511	1320	546	0.92		510	1307	594	0.91	64

Appendix 70. Biological data by age class for Arctic charr caught in 4.0 inch mesh gill nets, Iqalugajuiit River (Cape Dorset), July 1996.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
8	-	-	-	-	-	-	-	1	2	300	-	200	-	0.74	1	1	300	-	200	-	0.74	-
9	3	10	423	66	633	404	0.76	1	2	355	-	300	-	0.67	4	5	406	64	550	370	0.74	25
10	3	10	420	75	667	473	0.80	5	9	406	81	600	374	0.79	8	10	411	74	625	381	0.79	63
11	2	6	490	14	1250	354	1.05	4	8	476	30	1025	206	0.94	6	7	481	25	1100	253	0.98	67
12	8	26	500	32	1138	177	0.91	7	13	495	66	1243	785	0.94	15	18	498	49	1187	532	0.92	47
13	5	16	520	37	1320	396	0.91	18	34	522	35	1389	345	0.97	23	27	521	35	1374	348	0.95	78
14	6	19	532	108	1483	928	0.86	9	17	562	41	1733	480	0.95	15	18	550	73	1633	675	0.91	60
15	3	10	567	91	1833	764	0.97	5	9	561	47	1700	464	0.95	8	10	563	60	1750	542	0.96	63
16	1	3	680	-	3400	-	1.08	3	6	510	70	1100	458	0.79	4	5	553	102	1675	1209	0.86	75
TOTAL	31							53							84							
MEAN			506	81	1287	717	0.89			506	73	1296	576	0.92			506	76	1293	628	0.91	63
MEAN AGE	12.4									12.8							12.7					

Appendix 71. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gill nets, Tagiugajuk River (Cape Dorset), August 1996.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
300-349	-	-	-	-	-	1	330	510	-	1.42	1	330	510	-	1.42	-
350-399	-	-	-	-	-	2	393	700	0	1.15	2	393	700	0	1.15	-
400-449	8	430	844	297	1.08	8	432	783	106	0.97	16	431	813	218	1.02	50
450-499	19	472	1032	145	0.98	24	471	1049	190	1.00	43	471	1041	170	0.99	56
500-549	15	518	1410	229	1.01	16	517	1291	242	0.94	31	517	1349	239	0.97	52
550-599	4	555	1650	100	0.97	3	570	1810	271	0.97	7	561	1719	192	0.97	43
TOTAL	46					54					100					
MEAN		487	1176	325	1.01		479	1101	324	0.99		482	1135	325	1.00	54

Appendix 72. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Tagiugajuk River (Cape Dorset), August 1996.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
8	3	7	433	19	1000	500	1.27	1	2	330	-	510	-	1.42	4	4	407	54	878	476	1.31	25
9	3	7	477	29	1067	58	0.99	3	6	447	21	867	153	0.96	6	7	462	28	967	151	0.98	50
10	10	24	486	20	1185	249	1.02	5	10	494	17	1260	185	1.04	15	16	489	19	1210	226	1.03	33
11	10	24	483	38	1105	289	0.96	12	24	474	49	1033	340	0.94	22	24	478	44	1066	312	0.95	55
12	8	19	489	58	1200	434	1.00	10	20	468	38	1045	329	1.01	18	20	477	47	1114	376	1.00	56
13	5	12	508	38	1240	288	0.94	9	18	483	37	1120	317	0.98	14	15	492	38	1163	302	0.97	64
14	-	-	-	-	-	-	-	1	2	515	-	1300	-	0.95	1	1	515	-	1300	-	0.95	-
15	1	2	550	-	1600	-	0.96	5	10	480	56	1100	292	0.98	6	7	492	57	1183	331	0.98	83
16	2	5	505	35	1450	354	1.11	3	6	533	32	1333	586	0.85	5	5	522	33	1380	455	0.96	60
17	-	-	-	-	-	-	-	1	2	520	-	1500	-	1.07	1	1	520	-	1500	-	1.07	-
TOTAL	42							50							92							
MEAN			487	40	1176	317	1.01			478	47	1093	330	0.98			482	44	1131	325	1.00	54
MEAN AGE			11.2							12.2							11.7					

Appendix 73. Biological data by length interval for Arctic charr sampled from 4.5 inch mesh gill nets, Sapugajuilt (Cape Dorset), August 1997.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
300-349	1	330	400	-	1.11	-	-	-	-	-	1	330	400	-	1.11	-
350-399	2	355	500	0	1.12	3	380	600	100	1.09	5	370	560	89	1.10	60
400-449	8	421	838	177	1.12	3	430	933	153	1.20	11	424	864	169	1.14	27
450-499	9	472	1089	203	1.03	11	471	1091	151	1.04	20	472	1090	171	1.04	55
500-549	5	524	1500	324	1.03	17	520	1465	100	1.04	23	521	1478	165	1.04	77
550-599	6	575	1983	214	1.04	16	561	1913	247	1.08	23	564	1926	232	1.07	73
600-649	7	607	2300	370	1.03	-	-	-	-	-	7	607	2300	370	1.03	-
650-699	2	655	3050	71	1.09	2	670	3200	141	1.07	4	663	3125	126	1.08	50
700-749	1	700	3600	-	1.05	-	-	-	-	-	1	700	3600	-	1.05	-
TOTAL	41					52					95					
MEAN		512	1539	795	1.06		515	1510	545	1.07		514	1526	657	1.06	56

Appendix 74. Biological data by age class for Arctic charr sampled from 4.5 inch mesh gill nets, Sapugajuiit(Cape Dorset), August 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
6	1	3	430	-	800	-	1.01	-	-	-	-	-	-	-	1	1	430	-	800	-	1.01	-
7	-	-	-	-	-	-	-	1	2	390	-	700	-	1.18	1	1	390	-	700	-	1.18	-
8	8	23	433	90	938	487	1.10	7	14	439	53	971	355	1.12	15	18	435	73	953	416	1.11	47
9	4	11	518	68	1575	602	1.09	7	14	494	41	1243	310	1.02	11	13	503	50	1364	441	1.04	64
10	3	9	430	44	967	306	1.19	9	18	520	42	1556	391	1.09	12	14	498	57	1408	446	1.12	75
11	6	17	558	56	1817	483	1.03	6	12	520	45	1550	409	1.08	12	14	539	52	1683	449	1.05	50
12	1	3	460	-	900	-	0.92	4	8	505	24	1350	173	1.04	5	6	496	29	1260	251	1.02	80
13	2	6	530	99	1650	1202	0.99	5	10	568	70	1860	695	0.99	8	9	558	67	1800	701	0.99	71
14	2	6	530	184	1750	1768	0.91	4	8	555	21	1825	419	1.05	6	7	547	85	1800	856	1.01	67
15	2	6	480	14	1100	141	0.99	3	6	563	12	1933	252	1.08	5	6	530	47	1600	495	1.04	60
16	3	9	547	92	2033	1002	1.18	3	6	523	60	1533	603	1.03	6	7	535	71	1783	788	1.10	50
17	2	6	635	92	2850	061	1.09	-	-	-	-	-	-	-	2	2	635	92	2850	1061	1.09	-
19	1	3	620	-	2100	-	0.88	-	-	-	-	-	-	-	1	1	620	-	2100	-	0.88	-
TOTAL	35							49							85							
MEAN			505	94	1491	805	1.06			511	59	1467	491	1.06			509	75	1481	633	1.06	58
MEAN AGE			11.4							11.1							11.2					

Appendix 75. Biological data by length interval for Arctic charr sampled from 4.0 and 4.5 inch mesh gill nets, Oviluqtuuq River (Cape Dorset), August 1997.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	% FEMALE
350-399	-	-	-	-	-	1	380	700	-	1.28	1	380	700	-	1.28	-
400-449	4	423	1450	640	1.97	6	423	1233	547	1.60	10	423	1320	561	1.75	60
450-499	8	470	1950	818	1.86	12	465	1800	770	1.77	20	467	1860	771	1.81	60
500-549	13	518	2069	977	1.46	21	524	2486	1124	1.72	34	522	2326	1074	1.62	62
550-599	3	577	3033	1790	1.55	12	568	2900	1098	1.61	15	569	2927	1187	1.60	80
600-649	5	610	3480	1583	1.56	6	625	4083	1749	1.69	11	618	3809	1622	1.63	55
650-699	5	668	2960	195	0.99	1	690	3300	-	1.00	6	672	3017	223	0.99	17
700-749	1	700	7400	-	2.16	-	-	-	-	-	1	700	7400	-	2.16	-
TOTAL	39					59					98					
MEAN		539	2487	1395	1.57		521	2449	1300	1.67		528	2464	1331	1.63	60

Appendix 76. Biological data by age class for Arctic charr sampled from 4.0 and 4.5 inch mesh gill nets, Oviluqtuuq River (Cape Dorset) August 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
7	-	-	-	-	-	-	-	2	4	440	28	1450	495	1.78	2	2	440	28	1450	495	1.78	-
8	-	-	-	-	-	-	-	3	5	440	10	1667	666	1.93	3	3	440	10	1667	666	1.93	-
9	3	8	430	20	1300	693	1.72	3	5	427	31	1200	781	1.44	6	6	428	23	1250	663	1.58	50
10	4	11	505	60	2125	1984	1.41	7	13	516	29	2514	1194	1.80	11	12	512	40	2373	1440	1.66	64
11	6	16	493	43	2133	979	1.75	12	21	500	51	2133	1252	1.63	18	19	498	47	2133	1139	1.67	67
12	7	19	540	57	2843	1319	1.80	10	18	514	37	2570	1150	1.86	17	18	525	47	2682	1190	1.84	59
13	8	22	561	93	3438	1952	1.94	6	11	547	50	2217	1649	1.26	14	15	555	76	2914	1868	1.65	43
14	4	11	593	85	2325	768	1.11	11	20	589	64	3273	1479	1.59	15	16	590	67	3020	1370	1.46	73
15	-	-	-	-	-	-	-	2	4	520	99	2150	212	1.66	2	2	520	99	2150	212	1.66	-
16	2	5	605	92	2250	919	0.99	-	-	-	-	-	-	-	2	2	605	92	2250	919	0.99	-
17	2	5	550	71	1750	919	1.00	-	-	-	-	-	-	-	2	2	550	71	1750	919	1.00	-
19	1	3	610	-	2100	-	0.93	-	-	-	-	-	-	-	1	1	610	-	2100	-	0.93	-
TOTAL	37							56							93							
MEAN			536	78	2486	1426	1.59			518	65	2393	1302	1.66			525	70	2430	1346	1.63	60
MEAN AGE			12.5							11.6							11.9					

Appendix 77. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gillnets, Sapujuat River (Cape Dorset), September 1997.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
350-399	-	-	-	-	-	2	395	825	106	1.34	2	395	825	106	1.34	-
400-449	9	424	950	100	1.24	13	420	988	133	1.33	22	422	973	119	1.30	59
450-499	21	470	1307	172	1.25	16	473	1366	154	1.29	37	471	1332	165	1.27	43
500-549	15	516	1860	221	1.35	9	519	1811	162	1.29	24	517	1842	199	1.33	38
550-599	9	563	2417	214	1.36	2	560	2200	71	1.25	11	562	2377	211	1.34	18
600-649	2	605	2700	0	1.22	1	630	2500	-	1.00	3	613	2633	115	1.15	33
650-699	-	-	-	-	-	1	660	3400	-	1.18	1	660	3400	-	1.18	-
TOTAL	56					44					100					
MEAN		495	1626	551	1.29		475	1431	520	1.29		486	1540	544	1.29	44

Appendix 78. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Sapujuat River (Cape Dorset), September 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
7	8	14	447	16	1144	118	1.28	5	12	411	19	940	82	1.36	13	13	433	24	1065	145	1.31	38
8	18	32	479	44	1517	547	1.33	17	40	451	36	1259	329	1.34	35	35	466	42	1391	466	1.33	49
9	14	25	505	46	1754	552	1.31	9	21	483	45	1439	436	1.25	23	23	497	46	1630	523	1.28	39
10	3	5	490	18	1433	208	1.21	3	7	490	23	1483	275	1.25	6	6	490	18	1458	220	1.23	50
11	7	13	528	52	1900	499	1.27	5	12	521	43	1790	423	1.25	12	12	525	47	1854	452	1.26	42
12	4	7	541	54	2025	651	1.24	2	5	580	71	2125	530	1.09	6	6	554	56	2058	560	1.19	33
13	-	-	-	-	-	-	-	1	2	480	-	1400	-	1.27	1	1	480	-	1400	-	1.27	-
14	1	2	600	-	2700	-	1.25	-	-	-	-	-	-	-	1	1	600	-	2700	-	1.25	-
15	-	-	-	-	-	-	-	1	2	660	-	3400	-	1.18	1	1	660	-	3400	-	1.18	-
16	1	2	505	-	1650	-	1.28	-	-	-	-	-	-	-	1	1	505	-	1650	-	1.28	-
TOTAL	56							43							99							
MEAN			495	50	1626	551	1.29			476	60	1430	526	1.29			486	55	1541	547	1.29	43
MEAN AGE			9.1							9.0							9.1					

Appendix 79. Biological data by length interval for Arctic charr sampled from 4.5 inch mesh gill nets, Tasiujaquaq Lake (Cape Dorset), October 1997.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
200-249	1	230	100	-	0.82	1	240	200	-	1.45	2	235	150	71	1.13	50
250-299	1	290	300	-	1.23	1	260	300	-	1.71	2	275	300	0	1.47	50
300-349	1	310	400	-	1.34	-	-	-	-	-	1	310	400	-	1.34	-
350-399	7	376	700	231	1.34	2	375	550	71	1.04	9	376	667	212	1.27	22
400-449	14	426	779	89	1.00	16	428	800	89	1.02	30	427	790	88	1.01	53
450-499	25	464	1044	169	1.04	18	468	989	160	0.97	43	466	1021	166	1.01	42
500-549	5	500	1260	114	1.01	4	510	1250	100	0.94	9	504	1256	101	0.98	44
TOTAL	54					42					96					
MEAN		436	907	277	1.07		442	886	246	1.02		439	898	262	1.05	44

Appendix 80. Biological data by age class for Arctic charr sampled from 4.5 inch mesh gill nets, Tasiujaquaq Lake (Cape Dorset), October 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
7	1	2	230	-	100	-	0.82	2	5	335	106	500	283	1.36	3	3	300	96	367	306	1.18	67
8	6	11	413	34	717	183	1.00	4	10	438	24	725	150	0.90	10	11	423	31	720	162	0.96	40
9	15	28	416	50	800	245	1.09	6	15	437	34	867	197	1.03	21	23	422	46	819	229	1.08	29
10	9	17	462	33	1044	260	1.04	15	38	455	41	933	226	0.98	24	26	458	38	975	240	1.00	63
11	12	23	450	35	1008	168	1.15	7	18	467	21	1014	157	0.99	19	20	456	31	1011	159	1.09	37
12	5	9	470	19	1100	224	1.05	5	13	462	36	1020	192	1.03	10	11	466	27	1060	201	1.04	50
13	3	6	473	15	1033	58	0.98	1	3	450	-	900	-	0.99	4	4	468	17	1000	82	0.98	25
15	1	2	450	-	800	-	0.88	-	-	-	-	-	-	-	1	1	450	-	800	-	0.88	-
16	1	2	500	-	1300	-	1.04	-	-	-	-	-	-	-	1	1	500	-	1300	-	1.04	-
TOTAL	53							40							93							
MEAN			438	52	917	270	1.06			447	46	905	225	1.01			442	49	912	251	1.04	43
MEAN AGE	10.2									10.0							10.1					

Appendix 81. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gill nets, Tasiujakalak (Cape Dorset), July 1998.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
		LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)			%
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
200-249	3	210	100	0	1.09	-	-	-	-	-	3	210	100	0	1.09	-
250-299	3	273	267	115	1.37	3	273	333	115	1.67	6	273	300	110	1.52	50
300-349	5	322	440	167	1.30	8	318	513	405	1.56	13	319	485	326	1.46	62
350-399	5	374	600	122	1.14	10	367	560	97	1.14	15	369	573	103	1.14	67
400-449	2	420	800	141	1.08	10	413	1000	467	1.41	13	414	938	425	1.32	83
450-499	7	476	1186	261	1.10	9	473	1289	183	1.21	16	474	1244	219	1.17	56
500-549	6	522	1567	137	1.10	14	513	1579	185	1.17	22	515	1577	163	1.15	70
550-599	2	560	2050	71	1.17	4	563	1975	275	1.11	6	562	2000	219	1.13	67
600-649	2	615	1800	283	0.78	-	-	-	-	-	2	615	1800	283	0.78	-
650-699	2	660	2550	71	0.89	-	-	-	-	-	2	660	2550	71	0.89	-
TOTAL	37					58					98					
MEAN		430	1038	701	1.13		428	1074	566	1.29		430	1066	616	1.22	61

Appendix 82. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Tasiujakalak(Cape Dorset), July 1998.

	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
AGE (YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
6	3	8	210	10	100	0	1.09	3	5	353	145	733	577	1.70	6	6	282	121	417	504	1.39	50
7	5	14	300	27	320	84	1.25	10	17	333	33	520	358	1.42	15	15	322	34	453	307	1.36	67
8	5	14	350	64	580	259	1.30	8	14	384	69	725	403	1.18	14	14	374	65	664	337	1.20	62
9	7	19	436	55	914	339	1.06	14	24	439	62	1029	470	1.14	21	21	438	58	990	425	1.11	67
10	5	14	494	75	1440	518	1.15	11	19	486	49	1491	333	1.33	18	18	491	53	1489	363	1.27	69
11	6	16	505	34	1483	426	1.14	6	10	468	70	1483	567	1.43	12	12	487	56	1483	478	1.29	50
12	-	-	-	-	-	-	-	3	5	540	46	1833	416	1.16	3	3	540	46	1833	416	1.16	-
13	3	8	523	136	1667	950	1.10	2	3	485	21	1250	354	1.08	5	5	508	99	1500	731	1.09	40
14	1	3	630	-	1600	-	0.64	-	-	-	-	-	-	-	1	1	630	-	1600	-	0.64	-
15	-	-	-	-	-	-	-	1	2	500	-	1400	-	1.12	1	1	500	-	1400	-	1.12	-
16	2	5	635	49	2250	354	0.88	-	-	-	-	-	-	-	2	2	635	49	2250	354	0.88	-
TOTAL	37							58							98							
MEAN			430	126	1038	701	1.13			428	85	1074	566	1.29			430	101	1066	616	1.22	61
MEAN AGE			9.6							9.2							9.3					

Appendix 83. Biological data by length interval for Arctic charr sampled from 5.0 inch mesh gill nets, Kangisurituq River (Cape Dorset), July 1998.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
350-399	2	390	500	0	0.84	1	350	500	-	1.17	3	377	500	0	0.95	33
400-449	12	419	813	113	1.10	5	417	900	335	1.22	17	419	838	196	1.14	29
450-499	8	463	1094	129	1.10	10	466	1125	132	1.11	18	465	1111	128	1.11	56
500-549	12	530	1646	167	1.10	13	511	1500	228	1.12	25	520	1570	211	1.11	52
550-599	30	573	2092	222	1.11	7	569	2000	204	1.09	37	572	2074	219	1.11	19
600-649	6	623	2542	188	1.05	2	638	2375	177	0.92	8	627	2500	189	1.02	25
650-699	2	675	3250	0	1.06	-	-	-	-	-	2	675	3250	0	1.06	-
TOTAL	72					38					110					
MEAN		530	1719	662	1.09		500	1434	489	1.12		519	1620	620	1.10	35

Appendix 84. Biological data by age class for Arctic charr sampled from 5.0 inch mesh gill nets, Kangisurituq River (Cape Dorset), July 1998.

AGE (YR)	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
6	1	1	400	-	750	-	1.17	-	-	-	-	-	-	-	1	1	400	-	750	-	1.17	-
7	4	6	444	17	1000	0	1.15	2	6	435	28	1000	354	1.19	6	6	441	19	1000	158	1.16	33
8	15	22	470	64	1167	556	1.05	8	24	459	53	1125	354	1.12	23	23	467	60	1152	487	1.08	35
9	22	32	547	45	1875	448	1.12	8	24	462	39	1063	320	1.06	30	29	524	57	1658	551	1.10	27
10	8	12	554	64	1906	516	1.09	4	12	519	26	1625	323	1.15	12	12	543	56	1813	466	1.11	33
11	6	9	607	38	2375	607	1.04	4	12	503	52	1563	125	1.28	10	10	565	68	2050	621	1.14	40
12	4	6	550	91	1813	747	1.03	6	18	564	38	2000	224	1.12	10	10	559	60	1925	472	1.09	60
13	3	4	607	76	2417	764	1.07	1	3	580	-	2250	-	1.15	4	4	600	64	2375	629	1.09	25
14	2	3	540	0	1750	0	1.11	1	3	595	-	1750	-	0.83	3	3	558	32	1750	0	1.02	33
15	1	1	590	-	2500	-	1.22	-	-	-	-	-	-	-	1	1	590	-	2500	-	1.22	-
16	1	1	560	-	2000	-	1.14	-	-	-	-	-	-	-	1	1	560	-	2000	-	1.14	-
20	1	1	610	-	2500	-	1.10	-	-	-	-	-	-	-	1	1	610	-	2500	-	1.10	-
TOTAL	68							34							102							
MEAN			532	72	1735	656	1.09			497	61	1419	476	1.13			520	70	1630	618	1.10	33
MEAN AGE			9.8							9.8							9.8					

Appendix 85. Biological data by length interval from Arctic charr sampled from 4.0 inch mesh gill nets, Kangisuajuaq River (Cape Dorset), September 1998.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
300-349	1	320	1000	-	3.05	-	-	-	-	-	1	320	1000	-	3.05	-
350-399	5	376	800	453	1.46	1	360	1000	-	2.14	6	373	833	413	1.58	17
400-449	1	440	1100	-	1.29	7	427	871	364	1.14	8	429	900	346	1.16	88
450-499	10	466	1220	169	1.20	11	473	1427	195	1.34	21	470	1329	208	1.28	52
500-549	21	527	1676	241	1.14	15	515	1593	237	1.16	36	522	1642	239	1.15	42
550-599	4	553	2025	126	1.20	7	563	2300	224	1.29	11	559	2200	232	1.26	64
600-649	3	617	2933	379	1.25	4	618	2625	386	1.11	7	617	2757	387	1.17	57
650-699	4	653	3075	580	1.11	2	670	3800	283	1.26	6	658	3317	598	1.16	33
700-749	4	703	4125	171	1.19	-	-	-	-	-	4	703	4125	171	1.19	-
TOTAL	53					47					100					
MEAN		525	1872	934	1.23		511	1721	720	1.24		519	1801	839	1.24	47

Appendix 86. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Kangisuajuaq River (Cape Dorset), September 1998.

AGE (YR)	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
6	-	-	-	-	-	-	-	1	2	440	-	800	-	0.94	1	1	440	-	800	-	0.94	-
7	3	6	377	74	867	321	1.78	1	2	360	-	1000	-	2.14	4	4	373	61	900	271	1.87	25
8	8	16	473	55	1325	406	1.22	9	21	459	35	1300	265	1.33	17	18	465	45	1312	328	1.28	53
9	17	33	498	69	1488	418	1.22	9	21	476	41	1167	439	1.07	26	28	490	61	1377	445	1.17	35
10	9	18	518	38	1567	436	1.11	10	23	509	27	1650	268	1.25	19	20	513	32	1611	349	1.18	53
11	7	14	584	73	2486	886	1.21	4	9	523	39	1900	231	1.34	11	12	562	68	2273	758	1.26	36
12	4	8	633	62	3150	940	1.22	5	12	550	49	2060	619	1.21	9	10	587	67	2544	923	1.21	56
13	1	2	700	-	4200	-	1.22	4	9	628	53	3050	885	1.21	5	5	642	56	3280	923	1.21	80
14	1	2	700	-	3900	-	1.14	-	-	-	-	-	-	-	1	1	700	-	3900	-	1.14	-
15	1	2	620	-	3100	-	1.30	-	-	-	-	-	-	-	1	1	620	-	3100	-	1.30	-
TOTAL	51							43							94							
MEAN			523	90	1839	916	1.23			503	65	1642	691	1.24			514	80	1749	823	1.24	46
MEAN AGE			9.7							9.8							9.8					

Appendix 87. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Kukaluk Lake (Igloolik), March 1996.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL (MM)	N	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	N	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	N	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
350-399	-	-	-	-	-	1	390	600	-	1.01	1	390	600	-	1.01	-
400-449	-	-	-	-	-	1	410	1000	-	1.45	1	410	1000	-	1.45	-
450-499	-	-	-	-	-	2	470	1150	71	1.13	2	470	1150	71	1.13	-
500-549	-	-	-	-	-	3	517	1433	153	1.04	4	513	1400	141	1.04	-
550-599	3	563	2300	700	1.31	9	564	1856	207	1.03	12	564	1967	401	1.10	75
600-649	3	610	2633	153	1.16	13	614	2492	266	1.08	17	613	2453	364	1.07	81
650-699	6	668	2867	480	0.97	11	672	3391	359	1.12	19	669	3121	560	1.04	65
700-749	7	719	4114	339	1.11	12	720	4183	511	1.12	21	719	4181	431	1.12	63
750-799	5	772	5000	957	1.08	4	770	5325	1132	1.16	11	773	5127	888	1.11	44
800-849	6	815	6083	866	1.12	2	815	6750	1061	1.24	9	816	6400	946	1.18	25
850-899	2	855	7700	707	1.23	-	-	-	-	-	2	855	7700	707	1.23	-
TOTAL	32					58					99					
MEAN		719	4303	1688	1.11		639	3097	1434	1.10		670	3548	1664	1.10	64

Appendix 88. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Kukaluk Lake (Igloolik), March 1996.

AGE (YR)	MALES N	MALES %	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	% FEMALE
12	-	-	-	-	-	-	-	4	10	523	142	1850	1223	1.16	4	6	523	142	1850	1223	1.16	-
13	3	14	663	61	3267	833	1.11	8	20	594	53	2200	741	1.02	13	19	621	64	2546	1005	1.02	73
14	4	19	705	87	4350	1942	1.18	11	27	615	81	2791	1151	1.15	17	25	641	84	3112	1454	1.12	73
15	4	19	658	79	3125	978	1.07	6	15	630	82	2833	1178	1.08	12	17	635	85	2942	1173	1.09	60
16	1	5	720	-	3800	-	1.02	3	7	697	42	4000	700	1.17	4	6	703	36	3950	580	1.14	75
17	1	5	710	-	4000	-	1.12	2	5	645	49	2850	495	1.06	3	4	667	51	3233	751	1.08	67
18	1	5	790	-	6200	-	1.26	3	7	737	59	4833	1704	1.18	5	7	756	49	5100	1353	1.16	75
19	3	14	760	40	5033	473	1.15	3	7	743	78	5133	2065	1.20	6	9	752	56	5083	1341	1.18	50
20	1	5	810	-	4700	-	0.88	-	-	-	-	-	-	-	1	1	810	-	4700	-	0.88	-
21	1	5	750	-	4300	-	1.02	1	2	700	-	3300	-	0.96	2	3	725	35	3800	707	0.99	50
22	2	10	830	28	6750	636	1.18	-	-	-	-	-	-	-	2	3	830	28	6750	636	1.18	-
TOTAL	21							41							69							
MEAN			722	78	4348	1463	1.12			632	94	3015	1432	1.11			662	97	3420	1558	1.10	66
MEAN AGE			16.6							14.9							15.4					

Appendix 89. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Asta Lake (Igloolik), February 1997.

LENGTH	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			
INTERVAL (MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	% FEMALE
300-349	-	-	-	-	-	1	300	300	-	1.11	1	300	300	-	1.11	-
350-399	1	370	900	-	1.78	-	-	-	-	-	1	370	900	-	1.78	-
400-449	2	443	850	71	0.98	-	-	-	-	-	2	443	850	71	0.98	-
450-499	3	470	1100	173	1.05	2	460	1000	0	1.03	5	466	1060	134	1.04	40
500-549	2	540	1400	141	0.89	-	-	-	-	-	2	540	1400	141	0.89	-
550-599	1	550	1100	-	0.66	2	560	2200	141	1.26	3	557	1833	643	1.06	67
600-649	8	618	2650	321	1.13	4	613	2725	222	1.19	12	616	2675	283	1.15	33
650-699	14	674	3243	415	1.06	12	671	3017	453	1.00	26	672	3138	439	1.03	46
700-749	11	724	3782	421	1.00	10	731	4140	732	1.06	21	727	3952	603	1.02	48
750-799	9	775	5033	748	1.08	6	765	4667	659	1.04	15	771	4887	714	1.06	40
800-849	6	825	5617	1091	1.00	4	820	6200	779	1.12	10	823	5850	977	1.05	40
850-899	2	860	6900	424	1.08	-	-	-	-	-	2	860	6900	424	1.08	-
TOTAL	59					41					100					
MEAN		683	3573	1589	1.05		683	3610	1445	1.07		683	3588	1524	1.06	41

Appendix 90. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gill nets, Asta Lake (Igloolik), February 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
8	1	2	445	-	800	-	0.91	-	-	-	-	-	-	-	1	1	445	-	800	-	0.91	-
9	-	-	-	-	-	-	-	1	3	300	-	300	-	1.11	1	1	300	-	300	-	1.11	-
10	3	7	450	85	1033	231	1.22	-	-	-	-	-	-	-	3	4	450	85	1033	231	1.22	-
12	2	4	590	170	2050	1485	0.91	2	6	533	103	1750	1061	1.08	4	5	561	119	1900	1068	1.00	50
13	4	9	698	88	3675	1078	1.07	-	-	-	-	-	-	-	4	5	698	88	3675	1078	1.07	-
14	7	15	611	54	2443	872	1.04	4	12	610	124	2650	1348	1.09	11	14	610	80	2518	1006	1.06	36
15	8	17	692	57	3538	1211	1.04	2	6	715	35	3500	990	0.94	10	13	696	53	3530	1118	1.02	20
16	1	2	660	-	2800	-	0.97	5	15	683	46	3260	522	1.02	6	8	679	43	3183	504	1.01	83
17	2	4	730	113	4700	2121	1.17	3	9	693	71	3267	808	0.98	5	6	708	78	3840	1438	1.05	60
18	6	13	718	79	3983	1273	1.05	5	15	728	94	4860	1791	1.22	11	14	723	82	4382	1518	1.13	45
19	4	9	689	172	4025	2533	1.08	4	12	685	103	3950	1611	1.19	8	10	687	132	3988	1966	1.13	50
20	6	13	775	37	5067	1223	1.07	5	15	716	74	3880	1843	1.00	11	14	748	62	4527	1578	1.04	45
21	2	4	760	99	5000	1980	1.11	1	3	810	-	5300	-	1.00	3	4	777	76	5100	1411	1.07	33
22	-	-	-	-	-	-	-	1	3	740	-	4500	-	1.11	1	1	740	-	4500	-	1.11	-
TOTAL	46							33							79							
MEAN			672	116	3493	1678	1.06			674	114	3539	1570	1.08			673	114	3513	1623	1.07	42
MEAN AGE			15.8							16.9							16.3					

Appendix 91. Biological data by length interval for Arctic charr sampled from 5.5 inch mesh gill nets, Tikiraq River (Hall Beach), August 1997.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	% FEMALE
500-549	-	-	-	-	-	2	519	1750	71	1.26	2	519	1750	71	1.26	-
550-599	3	579	2433	161	1.25	-	-	-	-	-	3	579	2433	161	1.25	-
600-649	16	621	3050	256	1.27	18	621	3036	425	1.26	35	621	3046	346	1.27	53
650-699	17	671	3632	421	1.20	13	667	3631	578	1.22	31	669	3621	481	1.21	43
700-749	6	718	4592	874	1.23	11	715	4318	557	1.18	18	717	4436	658	1.20	65
750-799	6	771	5525	345	1.21	-	-	-	-	-	6	771	5525	345	1.21	-
800-849	2	816	5575	530	1.03	-	-	-	-	-	2	816	5575	530	1.03	-
850-899	2	858	6900	495	1.09	-	-	-	-	-	2	858	6900	495	1.09	-
TOTAL	52					44					99					
MEAN		680	3913	1175	1.22		653	3474	803	1.23		668	3713	1032	1.22	46

Appendix 92. Biological data by age class for Arctic charr sampled from 5.5 inch mesh gil nets, Tikiraq River (Hall Beach), August 1997.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
8	-	-	-	-	-	-	-	1	3	528	-	1700	-	1.15	1	1	528	-	1700	-	1.15	-
9	1	2	620	-	3200	-	1.34	-	-	-	-	-	-	-	1	1	620	-	3200	-	1.34	-
10	-	-	-	-	-	-	-	1	3	617	-	3500	-	1.49	1	1	617	-	3500	-	1.49	-
11	3	7	670	25	3933	104	1.31	2	6	647	11	3200	141	1.18	6	8	659	20	3583	396	1.25	40
12	15	35	656	55	3423	799	1.21	10	30	633	30	3270	588	1.28	26	33	646	46	3354	700	1.24	40
13	7	16	651	48	3714	1040	1.32	5	15	655	36	3690	854	1.29	12	15	653	42	3704	925	1.31	42
14	4	9	673	60	3825	1007	1.24	6	18	634	72	3292	1095	1.26	11	14	656	68	3623	1060	1.25	60
15	7	16	687	72	4200	1412	1.25	2	6	644	29	3175	177	1.19	9	11	677	66	3972	1305	1.24	22
16	2	5	790	24	5525	601	1.12	3	9	695	29	3567	709	1.05	5	6	733	57	4350	1222	1.08	60
17	1	2	865	-	7250	-	1.12	1	3	661	-	3350	-	1.16	2	3	763	144	5300	2758	1.14	50
18	1	2	850	-	6550	-	1.07	-	-	-	-	-	-	-	1	1	850	-	6550	-	1.07	-
20	2	5	692	12	4450	778	1.34	1	3	700	-	4700	-	1.37	3	4	694	10	4533	569	1.35	33
21	-	-	-	-	-	-	-	1	3	705	-	3950	-	1.13	1	1	705	-	3950	-	1.13	-
TOTAL	43							33							79							
MEAN			679	70	3972	1196	1.24			645	48	3380	768	1.25			664	63	3716	1057	1.24	43
MEAN AGE			13.5							13.5							13.5					

Appendix 93. Biological data by length interval from Arctic charr sampled from 5.5 inch mesh gill nets, Naulingiavik River, (Hall Beach), August 1998.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
450-499	1	475	1200	-	1.12	-	-	-	-	-	1	475	1200	-	1.12	-
500-549	-	-	-	-	-	2	515	1750	354	1.27	2	515	1750	354	1.27	-
550-599	2	588	2600	141	1.28	-	-	-	-	-	2	588	2600	141	1.28	-
600-649	4	621	2850	311	1.19	4	630	2925	126	1.17	8	626	2888	223	1.18	50
650-699	6	664	3583	679	1.22	17	677	3629	273	1.17	23	674	3617	400	1.18	74
700-749	8	726	4194	649	1.10	19	722	4074	591	1.08	27	723	4109	599	1.09	70
750-799	12	772	5275	877	1.15	15	768	4707	598	1.04	27	770	4959	775	1.09	56
800-849	6	819	5617	859	1.02	-	-	-	-	-	6	819	5617	859	1.02	-
850-899	2	863	6500	707	1.01	-	-	-	-	-	2	863	6500	707	1.01	-
TOTAL	41					57					98					
MEAN		728	4460	1375	1.13		707	3946	815	1.11		716	4161	1108	1.12	58

Appendix 94. Biological data by age class from Arctic charr sampled from 5.5 inch mesh gill nets, Naulingiavik River, (Hall Beach), August 1998.

	MALES							FEMALES							COMBINED							
			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
AGE (YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
10	2	6	545	99	1850	919	1.10	2	5	615	127	3200	1697	1.32	4	5	580	101	2525	1360	1.21	50
11	2	6	700	99	4500	1838	1.28	2	5	663	39	3150	354	1.08	4	5	681	65	3825	1333	1.18	50
12	2	6	628	46	3050	495	1.23	3	7	713	44	4200	693	1.15	5	7	679	61	3740	835	1.18	60
13	3	9	692	14	4333	321	1.31	5	12	622	66	3040	963	1.22	8	11	648	62	3525	1004	1.25	63
14	5	16	710	71	4140	1043	1.14	8	20	696	52	4063	674	1.20	13	18	701	58	4092	793	1.18	62
15	4	13	799	89	5475	1360	1.07	5	12	699	35	3840	623	1.12	9	12	743	80	4567	1277	1.10	56
16	4	13	780	23	5325	1005	1.12	5	12	700	28	3560	462	1.05	9	12	736	49	4344	1162	1.08	56
17	3	9	795	33	5433	1193	1.08	3	7	740	44	4267	643	1.05	6	8	768	46	4850	1069	1.06	50
18	2	6	773	53	4200	1131	0.90	1	2	760	-	3200	-	0.73	3	4	768	38	3867	987	0.84	33
19	1	3	775	-	5200	-	1.12	3	7	723	45	3700	985	0.97	4	5	736	45	4075	1100	1.01	75
22	-	-	-	-	-	-	-	2	5	718	46	3750	71	1.03	2	3	718	46	3750	71	1.03	-
23	-	-	-	-	-	-	-	1	2	770	-	5000	-	1.10	1	1	770	-	5000	-	1.10	-
24	3	9	740	33	4283	1257	1.04	1	2	770	-	4400	-	0.96	4	5	748	31	4313	1028	1.02	25
25	1	3	670	-	4500	-	1.50	-	-	-	-	-	-	-	1	1	670	-	4500	-	1.50	-
TOTAL	32							41							73							
MEAN			728	85	4467	1317	1.14			695	60	3756	784	1.12			709	73	4068	1102	1.13	56
MEAN AGE			15.7							15.3							15.5					

Appendix 95. Biological data by length interval for Arctic charr sampled from 4.0 inch gill nets, Kasegalik Lake (West Arm) (Sanikiluaq), June 1997.

LENGTH	MALES					FEMALES					COMBINED					
INTERVAL		LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)				LENGTH(MM)	WEIGHT(G)			%
(MM)	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
350-399	1	350	500	-	1.17	1	395	1050	-	1.70	2	373	775	389	1.43	50
400-449	3	422	1167	153	1.58	3	433	900	132	1.10	6	428	1033	194	1.34	50
450-499	17	471	1181	183	1.13	22	472	1223	157	1.16	39	472	1204	168	1.15	56
500-549	10	519	1640	339	1.18	20	519	1520	243	1.08	30	519	1560	279	1.12	67
550-599	8	564	1788	422	1.00	6	560	1933	293	1.10	14	562	1850	366	1.04	43
600-649	3	615	2783	465	1.19	3	622	2633	375	1.10	6	618	2708	387	1.14	50
TOTAL	42					55					97					
MEAN		504	1503	544	1.15		503	1464	436	1.13		504	1481	484	1.14	57

Appendix 96. Biological data by age class for Arctic charr sampled from 4.0 inch gill nets, Kasegalik Lake (West Arm) (Sanikiluaq), June 1997.

	MALES							FEMALES							COMBINED							
AGE			LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)					LENGTH(MM)		WEIGHT(G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
7	2	5	395	64	750	354	1.17	2	4	505	7	1400	212	1.08	4	4	450	73	1075	444	1.13	50
8	3	8	500	10	1450	132	1.16	6	12	468	19	1117	207	1.08	9	10	479	22	1228	243	1.10	67
9	8	20	524	46	1638	476	1.11	7	13	526	53	1693	393	1.15	15	16	525	48	1663	424	1.13	47
10	12	30	480	50	1390	397	1.27	16	31	495	35	1372	306	1.12	28	30	489	42	1379	341	1.18	57
11	9	23	531	55	1533	772	0.98	8	15	479	47	1413	369	1.28	17	18	507	56	1476	601	1.12	47
12	5	13	547	54	1980	530	1.19	10	19	520	45	1450	401	1.01	15	16	529	48	1627	500	1.07	67
13	1	3	460	-	1400	-	1.44	2	4	583	81	2225	1096	1.07	3	3	542	91	1950	910	1.19	67
15	-	-	-	-	-	-	-	1	2	600	-	2650	-	1.23	1	1	600	-	2650	-	1.23	-
TOTAL	40							52							92							
MEAN			506	59	1518	554	1.15			504	48	1465	443	1.12			505	53	1488	492	1.14	57
MEAN AGE			10.1							10.3							10.2					

Appendix 97. Biological data by length interval for Arctic charr sampled from 4.0 inch mesh gill nets, Kasegalik Lake (West Arm) (Sanikiluaq), June 1998.

LENGTH INTERVAL (MM)	MALES					FEMALES					COMBINED					
		LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)				LENGTH (MM)	WEIGHT (G)			%
	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	N	MEAN	MEAN	SD	K	FEMALE
100-149	2	138	50	0	1.93	-	-	-	-	-	2	138	50	0	1.93	-
150-199	1	180	50	-	0.86	-	-	-	-	-	1	180	50	-	0.86	-
200-249	1	210	50	-	0.54	-	-	-	-	-	1	210	50	-	0.54	-
250-299	-	-	-	-	-	1	270	450	-	2.29	1	270	450	-	2.29	-
300-349	1	335	400	-	1.06	2	343	425	35	1.06	3	340	417	29	1.06	67
350-399	2	360	525	35	1.13	-	-	-	-	-	2	360	525	35	1.13	-
400-449	1	420	750	-	1.01	8	428	922	348	1.16	9	427	903	331	1.14	89
450-499	11	470	1173	225	1.13	22	473	1300	202	1.23	33	472	1258	215	1.20	67
500-549	17	525	1665	264	1.15	12	513	1538	247	1.14	30	520	1613	256	1.15	41
550-599	10	569	2100	261	1.14	4	560	1960	350	1.11	14	566	2060	283	1.13	29
600-649	1	635	1800	-	0.70	3	607	3083	850	1.39	4	614	2763	945	1.22	75
TOTAL	47					52					100					
MEAN		480	1413	648	1.14		481	1400	611	1.21		481	1409	623	1.18	53

Appendix 98. Biological data by age class for Arctic charr sampled from 4.0 inch mesh gill nets, Kasegalik Lake (West Arm), (Sanikiluaq), June 1998.

AGE	MALES							FEMALES							COMBINED							
			LENGTH (MM)		WEIGHT (G)					LENGTH (MM)		WEIGHT (G)					LENGTH (MM)		WEIGHT (G)			%
(YR)	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	N	%	MEAN	SD	MEAN	SD	K	FEMALE
6	-	-	-	-	-	-	-	1	2	270	-	450	-	2.29	1	1	270	-	450	-	2.29	-
7	1	2	335	-	400	-	1.06	2	4	443	46	1000	424	1.11	3	3	407	70	800	458	1.10	67
9	2	5	460	14	1025	177	1.05	6	12	476	85	1767	1216	1.45	8	8	472	72	1581	1085	1.35	75
10	16	36	460	131	1344	701	1.20	16	31	481	54	1366	497	1.17	32	33	470	99	1355	598	1.18	50
11	11	25	525	37	1759	412	1.20	15	29	495	44	1449	373	1.19	26	27	508	43	1580	412	1.19	58
12	7	16	549	50	1700	306	1.04	4	8	505	77	1613	769	1.20	12	12	533	59	1667	462	1.10	36
13	5	11	426	162	1120	791	1.23	4	8	504	61	1456	538	1.11	9	9	461	127	1269	673	1.18	44
14	-	-	-	-	-	-	-	3	6	465	28	1050	229	1.03	3	3	465	28	1050	229	1.03	-
15	1	2	560	-	1850	-	1.05	1	2	425	-	750	-	0.98	2	2	493	95	1300	778	1.02	50
16	1	2	210	-	50	-	0.54	-	-	-	-	-	-	-	1	1	210	-	50	-	0.54	-
TOTAL	44							52							97							
MEAN			480	115	1425	646	1.15			481	62	1400	611	1.21			481	90	1414	621	1.18	54
MEAN AGE			11.0							10.7							10.9					

Appendix 99. Biological data by length interval for Arctic charr sampled from 3.5 inch mesh gill nets, Kasegalik Lake (East Arm) (Sanikiluaq), June 1998.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH (MM) MEAN	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES LENGTH (MM) MEAN	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED LENGTH (MM) MEAN	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
350-399	1	380	600	-	1.09	-	-	-	-	-	1	380	600	-	1.09	-
400-449	7	429	914	121	1.16	2	440	1100	0	1.29	9	431	956	133	1.19	22
450-499	15	474	1197	174	1.12	26	472	1158	160	1.10	41	473	1172	164	1.11	63
500-549	10	520	1560	165	1.11	21	509	1443	147	1.09	31	513	1481	160	1.10	68
550-599	7	577	2186	234	1.13	6	560	1733	280	0.99	13	569	1977	339	1.07	46
600-649	3	610	2367	153	1.04	-	-	-	-	-	3	610	2367	153	1.04	-
650-699	1	660	3400	-	1.18	-	-	-	-	-	1	660	3400	-	1.18	-
TOTAL	44					55					99					
MEAN		505	1508	589	1.12		495	1327	258	1.09		499	1408	444	1.11	56

Appendix 100. Biological data by age class for Arctic charr sampled from 3.5 inch mesh gill nets, Kasegalik Lake (East Arm) (Sanikiluaq), June 1998.

AGE (YR)	MALES N	MALES %	MALES LENGTH (MM) MEAN	MALES LENGTH (MM) SD	MALES WEIGHT (G) MEAN	MALES WEIGHT (G) SD	MALES K	FEMALES N	FEMALES %	FEMALES LENGTH (MM) MEAN	FEMALES LENGTH (MM) SD	FEMALES WEIGHT (G) MEAN	FEMALES WEIGHT (G) SD	FEMALES K	COMBINED N	COMBINED %	COMBINED LENGTH (MM) MEAN	COMBINED LENGTH (MM) SD	COMBINED WEIGHT (G) MEAN	COMBINED WEIGHT (G) SD	COMBINED K	% FEMALE
7	2	6	450	28	1000	0	1.11	-	-	-	-	-	-	-	2	2	450	28	1000	0	1.11	-
8	1	3	450	-	1200	-	1.32	4	8	480	20	1250	289	1.13	5	6	474	22	1240	251	1.16	80
9	4	11	505	101	1475	746	1.07	5	10	474	30	1280	228	1.19	9	10	488	68	1367	495	1.14	56
10	6	17	503	80	1550	625	1.16	16	31	490	26	1325	211	1.12	22	25	494	45	1386	368	1.13	73
11	12	33	500	35	1425	386	1.12	14	27	491	23	1300	222	1.09	26	30	495	29	1358	309	1.10	54
12	8	22	551	62	2000	693	1.16	10	20	517	40	1410	331	1.02	18	21	532	52	1672	589	1.08	56
13	2	6	540	71	1850	919	1.12	2	4	545	21	1750	354	1.07	4	5	543	43	1800	572	1.10	50
14	1	3	560	-	1900	-	1.08	-	-	-	-	-	-	-	1	1	560	-	1900	-	1.08	-
TOTAL	36							51							87							
MEAN			512	63	1586	592	1.13			495	32	1341	259	1.10			502	48	1443	443	1.11	59
MEAN AGE			10.7							10.5							10.6					